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# THE CHEMIST AND DRUGGIST

TELEPHONE NUMBER:  
3617 CENTRAL (3 lines).

Established in  
ENGLAND, 1859.]

Registered as a Newspaper.

Published Weekly at 42 CANNON STREET,  
LONDON, E.C.

TELEGRAPHIC ADDRESS:  
"CHEMUS, CANNON, LONDON."  
[Charged as two words only.]

Established in  
[AUSTRALASIA, 1885.

No. 1,852. Vol. LXXXVII

JULY 24, 1915.

{ Subscription, 10s. per annum, including Diary.  
Free the World over. Single Copies, 6d. each.  
Winter and Summer Issues, 1s. each. Post Free.

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This preparation is supplied in minute granules, and is prepared from drugs of the purest quality.

### PRICES.

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|            |   |              |
|------------|---|--------------|
| 4 oz. f.c. | - | 5/9 per doz. |
| 6 oz. f.c. | - | 7/9 "        |
| 8 oz. f.c. | - | 9/6 "        |

Packed in Wood's plug-stoppered Cheltenhams

|         |   |              |
|---------|---|--------------|
| 4 oz. - | - | 6/3 per doz. |
| 6 oz. - | - | 8/6 "        |
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Chemist's own name and address printed free on labels and cartons with orders for three dozen and upwards.



The following are the various styles which can be supplied.

Specimens of available labels and cartons forwarded on request.

Fig. 534

Fancy coloured lithograph

Fig. 535

Black and white labels, fancy coloured wrappers or cartons

Fig. 537

Coloured labels, fancy coloured wrappers or cartons

Fig. 538

Fancy coloured labels and cartons

Fig. 539

Fancy coloured lithograph

Fig. 543

Fancy coloured border series

Fig. 1640

Fancy coloured Old English series

Fig. 1644

Fancy black and white script series

Fig. 898

Fancy coloured labels and cartons

Samples on request.

Allen & Hanburys  
Ltd. :: London

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NOW OPEN. 14 Cash Prizes, value from £1 to £25.

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HIGHLY SATISFACTORY RESULT.  
MUTUAL ADVANTAGE.

### THE (W)RIGHT DRAW FOR THE PUBLIC.

Messrs. Wright, Layman & Umney, Ltd.,  
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The result was to our mutual advantage: Wright's got the best advertisement they could have had in Derby, and Hart's got the biggest draw for the public since they opened here.

Yours faithfully,

pp. HART & CO.

38 Corn Market, Derby:  
April 23, 1915.

H. G. PATTISON.

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WINDOW COMPETITION ARE  
14 CASH PRIZES  
From £25 to £1 VALUE.

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61/63 LANT ST., SOUTHWARK, S.E.

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 Tablets

**Peptonising**  
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**Beef Juice**

**ARMOUR AND COMPANY**  
 LIMITED LONDON

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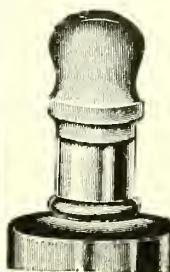
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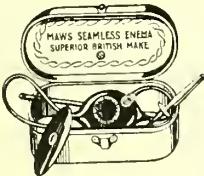
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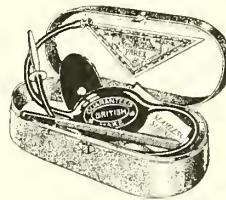
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### INDEX and BUYERS' GUIDE

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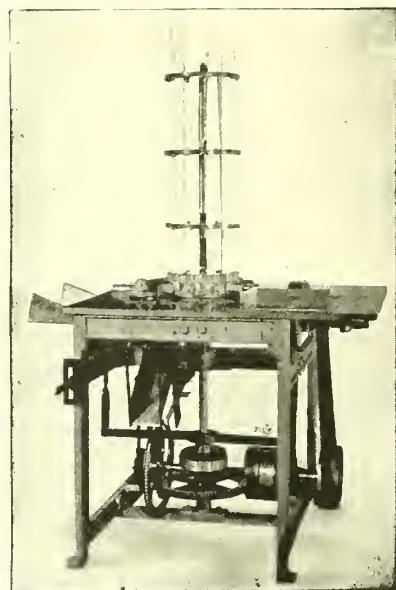
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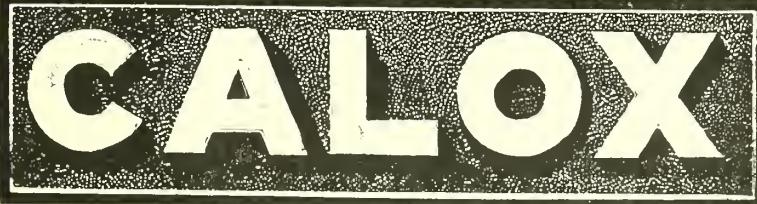
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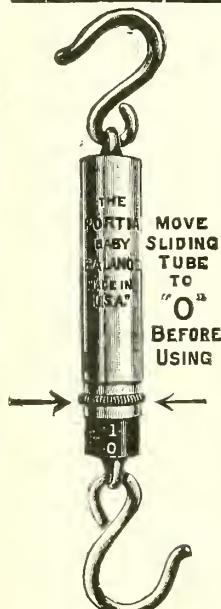
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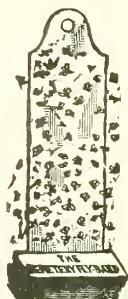
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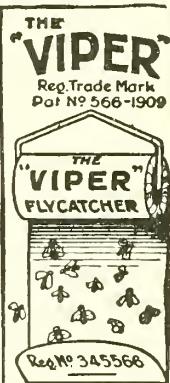
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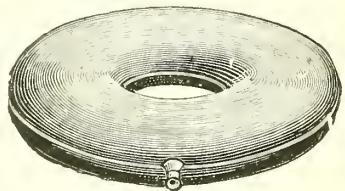


Fig. 1194.

Fig. 1194.—The "Empire" red India-rubber Air Cushion—

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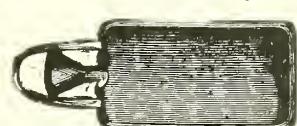
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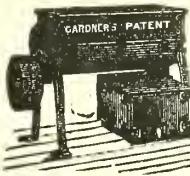
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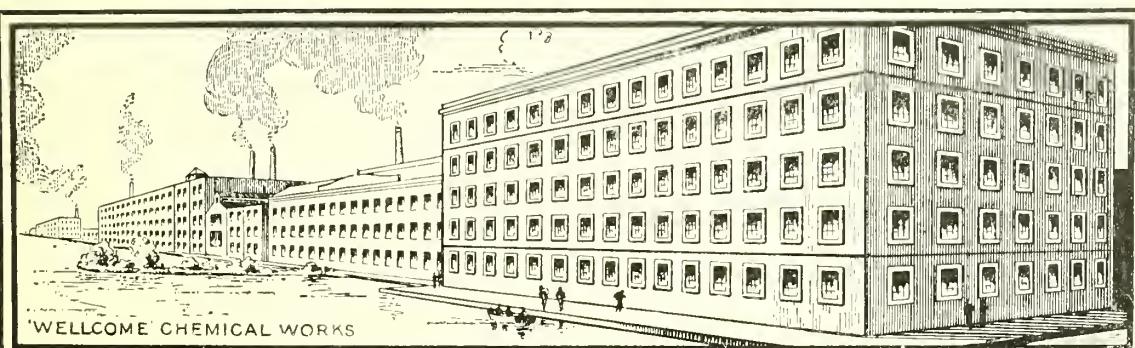
# SUMMER ISSUE.

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**Summary of Leading Matters.**

One of the notable features in war conditions is the amount of business being done by houses connected with the chemical and drug trade and the Government. We print particulars of the latest contracts of this nature (p. 36).

It is becoming increasingly necessary that exporters of all kinds of goods should be most careful as to their destination, because Germany is sparing neither expense nor trouble to get supplies from us and anybody. On the next page we reprint official notices on the subject.

The principal legal action reported is in regard to Horlick's right to the description "Malted Milk," which is disputed by an American doctor. Another is a decision by the Judicial Committee of the Privy Council reversing against Lennon, Ltd., a decision regarding damages from the use of an arsenical cattle-wash (pp. 41-43).

The scarcity of fats in Germany, especially as a source of glycerin, is again acute, and fresh measures are being taken to conserve what is available in the country, as well as to secure more fats by importation. See German News, p. 40, and a special article on p. 48, which shows that the need for glycerin as an explosives material is at the bottom of the matter, so that the British Government must regard fats of all kinds as contraband.

## European War.

### Pharmaceutical Roll of Honour.

*Non sibi sed patria.*—CICERO.

#### FORTY-FOURTH LIST.

BRAY, JOHN B. (lately with Mr. R. S. Carrie, chemist and druggist, The Brook, Liverpool), 3rd Batt. East Yorkshire Regiment.

BRINDLE, Private JOHN DICKSON (son of Mr. E. Brindle, chemist, Morrison Street, Edinburgh), 4th Batt. The Royal Scots.

CHAPMAN, Sergeant H. E. (lately with Mr. J. H. Bishop, chemist, Tunbridge Wells), R.A.M.C., Eastern Mounted Brigade Field Ambulance.

CLARK, FREDERICK WILLIAM (adopted son and pupil of Mr. J. Jarvis Rainey, chemist, Spilsby), 5th Batt. Lincolnshire Regiment (T.F.).

DEVELIN, Gunner C. W. (lately with Thomson & Taylor, Bombay), Bombay Volunteer Artillery, Indian Expeditionary Force, "D."

HARRIS, SAMUEL (lately with Boots Cash Chemists, Ltd., Wigton), 5th Batt. Manchester Regiment.

HIPKIN, HUBERT J. (lately apprentice with Mr. J. Jarvis Rainey, chemist, Spilsby), 5th Batt. Lincolnshire Regiment (T.F.).

LONGMAN, Sergeant A. PERCY (late of Pharmacie Anglaise, Algiers), R.A.M.C.

SCHORN, EDWIN J. (lately apprentice with Mr. D. Middleton, chemist, Bruntfield Place, Edinburgh), 5th Batt. The Royal Scots (T.F.).

SIM, C. F. C., chemist and druggist, Worcester, dispenser, Norfolk War Hospital.

THEAKSTON, T. W. Ph.C. (managing director of Prichard & Constance, Ltd., Haymarket, London), Royal Engineers.

WILSON, FRANK (lately with Mr. J. Jarvis Rainey, chemist, Spilsby), 5th Batt. Lincolnshire Regiment (T.F.).

The following gentlemen connected with pharmacy in Australia and New Zealand are serving with the Expeditionary Forces of the Commonwealth and the Dominion:

BARRACLOUGH, J. G., N.S.W.

BOYERS, J. J., chemist and druggist, Marrickville, Sydney, N.S.W.

BUTTERS, A. L. (representative of Duerdin & Sainsbury, Melbourne, Victoria).

COTTEW, W. S., chemist and druggist, Sydney, N.S.W.

GURR, A. J., N.S.W.

HEFFERMAN, P. J., N.S.W.

HIRST, Private H., Hokitika, N.Z., Canterbury Infantry Battalion.

JONES, H. W. (of the staff of Burroughs Wellcome & Co., Sydney, N.S.W.).

LANGSFORD, Staff-Sergeant Dispenser W., S.A., Medical Corps.

LEVECK, P. M., chemist and druggist, Sydney, N.S.W.

LIPSHAM, EDWARD F. (son of Mr. Lipsham, of Faulding & Co.).

LOWER, S. W., chemist and druggist, Sydney, N.S.W.

MAGAREY, Sergeant-Compounder P. R., S.A., Third Australian Hospital.

MAIN, Sergeant-Compounder C. T., S.A., Medical Corps.

MOORE, S. R. (of the staff of Burroughs Wellcome & Co., Sydney, N.S.W.).

MUGGLETON, REG. A., S.A.

PARKES, S. A., chemist and druggist, Hornsby, N.S.W.

PARRINGTON, C. E., N.S.W.

PYE, ERIC J. D., chemist and druggist, Windsor, N.S.W.

RETALLICK, CECIL M., Adelaide, S.A.

ROBERTS, Sergeant A., Auckland, N.Z., Medical Corps.

ROBERTSON, LESLIE COWAN, Dunedin, N.Z., Mounted Rifles.

ROFF, W. F., chemist and druggist, Sydney, N.S.W.

SIMMONDS, Sergeant-Compounder J. LLOYD, Queensland, Medical Corps.

STAHL, L. R. B. D., chemist and druggist (lately with Murton & Battarbee, Melbourne, Victoria).

SYMONDS, J. H., Bright, Victoria, Medical Corps.

MAJOR H. J. AXE, Army Veterinary Corps, brother of Mr. W. J. Axe, chemist and druggist, 143 Wavertree Road, Liverpool, has been promoted lieutenant-colonel and appointed Assistant Director of Veterinary Services in the Third Army in France. He has been senior veterinary officer in charge of the Station Veterinary Hospital at Bulford Camp, Salisbury Plain, since the outbreak of war.

In Sir John French's despatch recently published in the "London Gazette," is mentioned the name of Captain T. Clemens Usher in a list of ten officers of the Royal Field Artillery. Captain Usher is a director of Fletcher, Fletcher &

B

Co., Ltd., Vibrona Laboratories, London, N., and son-in-law of Mr. Fred. W. Fletcher, F.C.S. He has been attached since October last to the Reserve Heavy Artillery of the Second Army in France.

#### Wounded.

Intimation has been received that the following have been wounded in the recent fighting on the Gallipoli Peninsula:

PRIVATE SAMUEL HARRIS, 5th Manchester Regiment, who was formerly in the employment of Boots Cash Chemists, Wigan.

MR. H. W. JONES, of the staff of Burroughs Wellcome & Co., Sydney, who is serving with the Australian Expeditionary Force.

EDWIN J. SCHORN, 5th Battalion The Royal Scots (T.F.). Previous to being called up for service Mr. Schorn was employed as apprentice with Mr. David Middleton, 35 Bruntsfield Place, Edinburgh.

PRIVATE H. HIRST, of the Canterbury Battalion of the New Zealand Expeditionary Force, who is reported wounded at the Dardanelles, was employed in a pharmacy at Hokitika, N.Z., before enlisting.

LIEUTENANT ROYSTON MAY, of the Australian Expeditionary Force, only son of Mr. Sydney May, chemist and druggist, Manby, N.S.W., is reported wounded in one of the first engagements on the Gallipoli Peninsula.

PRIVATE JOHN DICKSON BRINDLE, 1/4th Battalion The Royal Scots, son of Mr. Edward Brindle, chemist and druggist, Morrison Street, Edinburgh. Private Brindle is understood to have been wounded in the right hand and shoulder.

#### Notices as to Exports of Chemicals, etc.

DENMARK.—The Board of Trade have received telegraphic information from Copenhagen that the exportation of the following articles has been prohibited: Ammonia and ammoniacal salts, potash salts (including kainit, chloride, chlorate, perchlorate, and nitrate), tin ore, chloride of tin, and oxide of tin.

FRANCE.—It has been decided by the Commission Internationale des Dérégulations that the prohibition of export applies to hypochlorites and oleic acid, in so far as it is applicable to chlorides and olein; also that all licences to export which are granted refer to net weight, unless otherwise stipulated. Oilcakes of ground-nuts and of Indian colza may be shipped, without previous authorisation, to Great Britain by French firms who are willing to meet the requirements of the Department of Agriculture in supplying a similar quantity to French agriculturists. It is now officially confirmed that the French Government have allowed Corsican exporters to ship half their production of tanning-extracts to England. In addition, at the end of each period of four months, any quantities belonging to the other half not shipped to France may be also exported to England. As regards exports from France, the quantity of tanning-extracts allowed to be exported to England during each month will depend upon the monthly requirements of the French tanneries. General authorisation is accorded for the exportation of the total production of Algerian cork-oak bark, and half the production of Algerian green-oak bark to England and Italy. The "Journal Officiel" (July 3) publishes a list of articles the export of which is prohibited, among them being arsenic and its salts, hydrochloric acid, carbon bisulphide, sodium sulphide, and phosphorus products of all kinds. Exemptions may, however, be accorded under conditions to be laid down by the Ministry of Finance.

GERMANY.—A decree of the Imperial Chancellor, dated June 24, prohibited the exportation of calcined magnesia made from magnesium salts, aluminium chloride, sodium phosphate, benzoic compounds, benzoic acid, benzoic anhydride and benzoates (especially sodium benzoate), dyes in package for retail, phosphorus compounds, mixtures and preparations containing borax, amyl acetate, amyl alcohol, leather-glue (leim) (solid or liquid), laes and varnishes, cements made of pitch-residues and solvent naphtha, and of all substances which contain benzol, benzol-homologues, or by-products, or waste of benzol manufacture, tartar and tartrates, hypochlorite of lime, sodium thiosulphate, potashes, cerium oxalate, and all other cerium compounds.

#### Appointment of Agents of British Firms Abroad.

The Board of Trade call the attention of British firms who contemplate the appointment of new agents in foreign countries to the desirability of their satisfying themselves that the persons they propose to select are not unfriendly to Great Britain or her Allies. Where the individuals selected are not personally known to those with whom the appointment rests, the advice of his Majesty's Consular officers can always be secured by British subjects who apply to them.

#### Allied Government Contracts.

The Board of Trade inform merchants, manufacturers, and shippers that applications for permission to export to Allied countries goods of which the export is prohibited by Proclamation will receive special consideration if it can be clearly shown that the goods are destined for the use, directly or indirectly, of the Allied Government concerned, or its military or naval forces. Applications must be made to the Secretary, Commission Internationale de Ravitaillement, India House, Kingsway, W.C. The Commission will not recognise as evidence of the official destination of the goods documents issued by provincial military or naval officers, other local authorities, or Government contractors in the country to which the goods are to be exported, unless such documents are formally approved in writing by the competent Department of the Government concerned. British manufacturers, merchants, and shippers are warned that, before entering into any contracts for the supply of goods stated to be for the use of the Government of an Allied country, they should first instruct their clients in that country either to furnish them with written evidence that the proposed contract has the approval of the Ministry of War, Ministry of Marine, or other Department concerned, or to have a notification of its approval transmitted by such Department to its representative on the Commission Internationale de Ravitaillement. Firms accepting contracts without following the above procedure will do so at their own risk, and with full knowledge that permission to export the goods which they have contracted to supply may be refused. Applications for permission to export goods which are ordered by firms or individuals in an Allied country for purely industrial purposes, and which are not destined for the use of an Allied Government or its military or naval forces, should be made in the ordinary manner to the Secretary, War Trade Department, 4 Central Buildings, Westminster, S.W.

#### Sanitary Officers' Training Corps for Pharmacists.

The Organisation Committee of the London Pharmaceutical Association will be held in the Lecture-theatre, 17 Bloomsbury Square, W.C., on Sunday morning next, July 25, at eleven o'clock, to meet representatives of the Hackney Ambulance Corps and of the Wandsworth Sanitary Section, to consider the formation of a Sanitary Officers' Training Corps by the pharmacists of the London district. All pharmacists interested are invited to attend by Mr. Arthur H. Jenkin Chairman of the London Organisation Committee, 54 Wray Crescent, N.

#### German and Swiss Dyes.

In the *C. & D.* of July 10 (p. 34) we referred to a circular issued by the leading German dye-makers to Swiss consumers, threatening to stop supplies of dyes from Germany unless they were offered guarantees against direct or indirect export of colours to their enemies. The Swiss consumers have now received a reply to this from the Swiss makers. The latter, in the first place (says the "Manchester Guardian"), emphatically deny the German insinuation that the Swiss dye-makers prefer to cater for the foreign market to the neglect of the home market because the former is more profitable, and they explain the position quite frankly. Before the war they obtained 90 per cent. of their raw materials from Germany. When war broke out supplies ceased, first owing to transport difficulties, and later (since September) owing to the direct prohibition of export from Germany of almost all raw products from coal tar and of all acids. They state that they took immediate steps to induce the German authorities to relax the prohibition regulations, and not only were the negotiations fruitless, but the regulations were extended to include other necessary raw materials. To avoid the complete closing down of their works they were compelled to look elsewhere for their raw materials. Fortunately Great Britain was in the position to fill the breach to a great extent, and supplies were also obtained from France and the United States. Great Britain imposed certain restrictions which the Swiss makers state are perfectly fair; they involve the return to England of certain specified quantities of manufactured colours in exchange for given shipments of raw tar products; there is a similar arrangement with France. But, these "compensation" deliveries notwithstanding, the Swiss makers have still sufficient dyestuffs available to satisfy the legitimate demand of Swiss domestic consumption, and they point out that this is admitted in a recent statement of the Swiss Dyestuff Consumers' Union. The attitude of the latter body is not known, and whether any action in deference to the German threat will be taken remains to be seen.

#### Aircraft Insurance.

The Government scheme of insurance against aircraft and bombardment risks came into operation on Monday,

July 19. The policies are issued by approved fire insurance companies and by the War Risks Insurance Office (Aircraft Department), 33-35 King William Street, London, E.C., to any of whom application should be made. Now that a public insurance scheme has been established no liability can be accepted by the Government, and no claim can be entertained in respect of damage to property by aircraft or bombardment unless the property has been insured under the scheme. The rates of premium (per 100%), which are the same for all parts of the United Kingdom, are as follows:

|  | Against Aircraft<br>Aircraft and Bombard-<br>only. | Against Aircraft<br>and Bombard-<br>ment. |
|--|--|---|
|  | s. d.  | s. d.                                     |
| 1. Building, rent and contents of private dwelling-houses and buildings in which no trade or manufacture is carried on                                       | 2 0  | 3 0                                       |
| 2. All other buildings and their rents   | 3 0  | 4 6                                       |
| 3. Farming stocks (live and dead)  | 3 0  | 4 6                                       |
| 4. Contents of all buildings other than those specified in 1 and 5   | 5 0  | 7 0                                       |
| 5. (a) Merchandise at docks and public wharves, in carriers' and canal warehouses and yards, in public mercantile storage warehouses, and in transit by rail | 7 6  | 10 0                                      |
| (b) Timber in the open   | 7 6  | 10 0                                      |
| (c) Mineral-oil tanks and stores (whole-sale)  | 7 6  | 10 0                                      |

#### Belgian Doctors' and Pharmacists' Relief Fund.

A meeting of the Central Committee was held on July 15, when the following financial statement of the position of the Fund was submitted by Dr. Des Voeux, the Honorary Treasurer:

#### Total Contributions Received.

|                | £ s. d.    | £ s. d.                |
|----------------|------------|------------------------|
| November 24 to |            | April ... 2,308 19 5   |
| end of month   | 921 15 0   | May ... 3,368 0 5      |
| December       | 1,516 10 4 | June ... 1,212 11 8    |
| January        | 2,106 15 0 | July (to date) 447 5 6 |
| February       | 2,436 10 2 |                        |
| March          | 1,157 16 8 | £15,456 4 2            |

The detailed source of contributions is as follows: Australia, 1,859/-; Canada, 1,450/-; 4s. 5d.; New Zealand, 1,095/-; 19s.; Colonial total, 4,405/-; 3s. 5d. Scotland, 1,181/-; 9s. 3d.; Ireland, 129/-; 17s. 10d.; England, 9,739/-; 13s. 8d.

The statement does not include the money which has been collected by the Irish Branch Fund. The greater proportion of the money received is still on deposit at the bank and bearing interest, but arrangements are now made for sending regular and large sums to the Aide de Protection aux Médecins et Pharmaciens Belges Sinistrés, the Belgian Relief Society sitting at Brussels. The following subscription has been received this week: Mr. N. H. Schollar (second contribution), 1/- 1s. Subscriptions may be sent to Mr. W. J. Uglow Woolcock, 17 Bloomsbury Square, London, W.C.

#### Miscellaneous.

A MILITARY HOSPITAL PHARMACOPÆIA.—We have received a copy of the Pharmacopœia of the 3rd London General Hospital (T.F.), which has recently been reprinted. It is a neat little volume of ten pages, containing formulae and designations for nearly one hundred preparations. It exhibits good pharmacy.

V.C. SHOP ASSISTANT.—The Board of Management of the Early-closing Association has passed a resolution expressing "gratification that the V.C. has been awarded to a shop assistant in the person of Lance-Sergeant D. W. Belcher (London Rifle Brigade) for his courageous action in 'holding-on' at Wielte-St. Julien Road (near Ypres) on May 13." The resolution, inscribed on vellum and enclosed in an artistic parchment envelope, has been forwarded to Sergeant Belcher.

ALLEGED TRADING WITH THE ENEMY.—On Thursday, July 1, the Calcutta police raided the premises No. 4 Waterloo Place, Calcutta, occupied by Moore's Agency for Sana-togen, etc., the agency being suspected of trading with the enemy, but the agency denied all knowledge of being associated in business with an enemy country. The police search occupied nearly four hours, and documents and account-books of the agency were taken for examination, but no arrests were made.

BRITISH GOODS IN FRANCE.—Mr. V. Renneboorg writes from Cherbourg that, owing to the shortage of pharmacists, the French Government is allowing Belgian pharmacists to manage pharmacies in France during the continuance of the war. He also tells us that English specialities and chemicals would be welcome in France if they were advertised, as the French public is enthusiastic about any goods

of English make. "I am sure," he adds, "that an English maker of malt extract, meat-juice, tablets, or other English specialities would be able at the present time to do good business in France."

ADVISORY MEDICAL COMMITTEE IN THE DARDANELLES.—"The Lancet" reports: Colonel William Hunter, M.D. (assistant physician to Charing Cross Hospital), Lieut.-Colonel G. S. Buchanan, M.D. (first assistant medical officer to the Local Government Board); Lieut.-Colonel Andrew Balfour, C.M.G. (director of the Wellcome Bureau of Scientific Research), and Lieut.-Colonel Leonard Dudgeon, F.R.C.P. (lecturer on general and special pathology at St. Thomas's Hospital), are proceeding to the Dardanelles as an Advisory Committee to assist the Royal Army Medical Corps in dealing with any epidemic outbursts and any questions relating to sanitation and tropical diseases.

GAS RESPIRATORS.—Dr. J. C. McWalter, M.D., Ph.C., in a communication to the "British Medical Journal," states that he finds an inhaler composed of a double fold of lint or three or four folds of thick muslin, saturated in dilute alcohol, placed over the mouth and nose enables one to breathe chlorine gas in air without any discomfort from the chlorine, which seems to become effectively absorbed by the alcohol. Dr. McWalter adds that the volatilised alcohol exerts a slight irritating action after a time, and there appears also to be a synthesis of chloroform which has a soporific effect. A 10-per-cent. solution of sodium bicarbonate tried under similar conditions appeared to be cooler and pleasanter to use.

"BOOTS' COMRADES IN KHAKI" is the title of a periodical designed to maintain open lines of communication between headquarters and men from Boots' serving with the Colours. The various Boots' companies have 1,200 of their men in the Forces, and in the first number seven pages are devoted to the Boots' Roll of Honour, beginning with Lieutenant John C. Boot, of the Sherwood Foresters Regiment, and nine other officers. The men are serving in the ranks of nearly a hundred regiments. The names of nine men who up to April had died on the field of honour are also given. The second number of the periodical covered May and June. It is illustrated with photographs of Lieutenant John C. Boot (who is serving with the Transport Corps in France); Private W. Smith, formerly of the Market Harborough branch; Private W. T. Hunt and his newly-wedded wife; Second-Lieutenant C. E. Glenn; Lieutenant-Pharmacist D. Roberts, formerly manager of the Church Road branch at Hove; Second-Lieutenant Martin Thompson, son of the late general manager of Boots'; and Second-Lieutenant W. H. Ratcliffe, son of Mr. T. S. Ratcliffe, director of Boots' Pure Drug Co., Ltd.; besides portraits of Private A. Y. Hutchinson (formerly in charge of the Goods Inwards Department at the London drug-warehouse), who fell at Landvoorde; and Private G. W. Scott, who died while on duty as dispensary at a base hospital in France. The July number continues the interest of the publication, and includes portraits of members of Boots' staff.

"MODERN MUNITIONS OF WAR."—On July 21 Professor Vivian B. Lewes delivered to a large audience at the Royal Society of Arts the concluding lecture on this subject, "Poison-gases and Incendiary Bombs" being specially dealt with. Professor Lewes classified gases suitable for use in warfare into three classes—viz.: (1) Gases which do not support life, but are not toxic—e.g., carbon dioxide, hydrogen, nitrogen; (2) true poison-gases—e.g., cyanogen, carbon monoxide; (3) asphyxiating gases, which affect the respiratory organs, producing spasms and setting up diseases of these organs—e.g., sulphur dioxide, chlorine, bromine, nitrogen peroxide. He pointed out that, owing to their properties of rapid diffusion, carbon monoxide and cyanogen cannot be employed with any hope of success in warfare. Sulphur dioxide had been suggested for use in war more than a hundred years ago, and he had no doubt that it had been used by the Germans in syphons and in bombs. It is comparatively harmless, as those affected by it soon recover when removed to a pure atmosphere. Undoubtedly chlorine had been most largely used by the enemy. As little as 0.04 per cent. renders the atmosphere irrespirable. Professor Lewes suggested that the best form of respirator is simply a strip of flannel soaked in solution of washing soda and tied round the lower part of the face. Regarding the question of retaliation in kind, Professor Lewes stated that any advantage in the use of gases lies in the element of surprise. The Germans expect us to use gases and are fully prepared for this, so that we shall not surprise them. The lecturer then described the nature of the bombs used by the Germans for incendiary purposes. He claimed that they are of inferior material and workmanship, as illustrated by the fact that many of them do not ignite, and that no bomb has been dropped in Great Britain from hostile aircraft that could not be extinguished by a few bucketfuls of water.

## English and Welsh News.

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

### Panel of Scientists.

The Secretary of the Admiralty announces that the arrangements for the organisation of the Inventions Board to assist the Admiralty in co-ordinating and encouraging scientific effort to the requirements of the Naval Service have now been completed. It will comprise: (a) A Central Committee; (b) a Panel of Consultants composed of scientific experts who will advise the main Committee on questions referred to them. The Central Committee will consist of: Lord Fisher of Kilverstone, G.C.B., O.M. (President), Sir J. J. Thomson, O.M., F.R.S., Hon. Sir C. A. Parsons, K.C.B., F.R.S., and Mr. G. T. Beilby, F.R.S. The Consulting Panel will comprise the following list, which will be added to from time to time if necessary: Professor H. B. Baker, F.R.S., Professor W. G. Bragg, F.R.S., Professor H. C. H. Carpenter, Sir William Crookes, O.M., F.R.S., Mr. W. Duddell, F.R.S., Professor Percy Frankland, F.R.S., Professor Bertram Hopkinson, F.R.S., Sir Oliver Lodge, F.R.S., Professor W. J. Pope, F.R.S., Sir Ernest Rutherford, F.R.S., Mr. G. Gerald Stoney, F.R.S., and Professor the Hon. R. J. Strutt, F.R.S. The Board is accommodated temporarily in the Whitehall Rooms, Hôtel Métropole, Whitehall Place, London, S.W., but at an early date will be transferred to permanent offices at Victory House, Cockspur Street, S.W. Communications should be addressed to: The Secretary, Board of Invention and Research.

### Developing the Optical-Industry.

At a conference convened by the Spectacle Makers' Company at the London Chamber of Commerce, on July 16, for the purpose of considering what practical steps can be taken to develop the optical-industry in this country in competition with foreign manufacturers, it was resolved that the Company and the London Chamber of Commerce should nominate a joint Committee to study the question in all its bearings, and to propose a definite scheme for the future of the industry, both educationally and economically. The master of the Guild, Sir J. F. L. Rolleston, M.P., presided, and there were also present Lord Southwark (President of the London Chamber of Commerce), Viscount Hill, Sir William Hart-Dyke, Sir Marcus Samuel, Mr. H. L. Symonds, Dr. Walmsley, and Mr. Lionel Lawrence, in addition to several representative members of the industry.

### British Dental Association.

The annual meeting of the British Dental Association will be held in the Hall of the Medical Society of London on July 24. The retiring President (Mr. W. Guy) is to give a valedictory address, after which the new President will be inducted and deliver an inaugural address. The annual report of the Representative Board states that the membership of the Association is "about 2,290." The excess of income over expenses was 529*l.*, whilst the invested funds stand at 5,155*l.* Regarding the draft Dental Bill it is stated that the Council of the British Medical Association has "decided to recommend their Representative Body to approve of our draft Bill to amend the law relating to the practice of dentistry." It is added that it is hoped that the General Medical Council will support the Bill "which is so urgently needed to deal with the admitted evils of unqualified dental practice." It is also stated that between sixty and seventy commissions as temporary lieutenants have been granted to Army dentists at the Front or at military hospitals and centres. "This marks definite progress in the official recognition of the profession and of Army dentistry as a vital necessity" adds the report.

### Contracts for Drugs, etc.

Subjoined are particulars regarding contracts for drugs and allied products which have been received during the week:

Barnes District Council (District Hospital Committee).—W. H. Bailey & Son, Ltd., The Holborn Surgical Instrument Co., and Allen & Hanburys, Ltd., medical requisites.

Grantham Town Council.—Mr. B. G. Skipworth, chemist and druggist, Grantham, drugs, etc.

Hereford and Ware Joint Hospital Board.—Mr. J. H. Lewis, chemist, medical sundries.

Holborn Guardians have agreed to the request of Manners & Hopkinson, contractors for drugs, for extra payment on certain items in their contract, including increased charges for rectified spirit consequent on the new taxation.

Kensington Guardians.—P. B. Cow & Co., six water-beds (45*s.* each).

Winchester Guardians have arranged with Mr. S. G. Bartlett, chemist, to charge for drugs and sundries supplied under his contract according to current price-lists.

### Government Contracts.

The following new Government contracts are notified:

CROWN AGENTS FOR THE COLONIES.—*Castor Oil, etc.*: Southall Bros. & Barclay, Ltd. *Quinine Sulphate*: Howards & Sons, Ltd.

H.M. STATIONERY OFFICE.—*Printing, binding, etc., 6,000 "Army Book, 108," printing, etc., 1,000,000 target-cards, A.I.D. J/C, and 100,000 books, Form Med. 40: Suttley & Silverlock, Ltd.*

INDIA OFFICE: STORE DEPARTMENT.—*Acid, Carbolic: R. H. Graesser. Bismuth Carb.: T. Morson & Son. Chloroform, etc.: Duncan, Flockhart & Co. Cottonwool and Wool: Robinson & Sons, Chesterfield. Cresol: Jeyes' Sanitary Compounds Co., Ltd. Dressings and Elevators: Arnold & Sons. Ergota: Evans Sons Lescher & Webb, Ltd. Glycerin: Price's Patent Candle Co., Ltd. Hydrargyrum: Howards & Sons, Ltd. Iodoform: Whiffen & Sons, Ltd. Ipecacuanha: Stafford Allen & Sons, Ltd. Oil, Morrhua: Baiss Bros. & Stevenson, Ltd. Oil, Menthae: Stafford Allen & Sons, Ltd. Olcum Terebinth, and Paraffinum Molle: Price's Patent Candle Co., Ltd. Plaster: Ferris & Co., Ltd. Potass. Iodid: Howards & Sons, Ltd. Sodii Sali-cylatas: W. J. Bush & Co., Ltd. Sterilisers and Syringes: Arnold & Sons, London. Tablets: Parke, Davis & Co., Outfits: Burroughs Wellcome & Co.*

WAR OFFICE.—*Antimony Sulphide: Cookson & Co., Ltd. Apparatus, Chemical, etc.: Baird & Tatlock, Brushes: Association for the Employment of the Industrious Blind: R. Benson & Sons, Ltd.; T. Cheshire & Son; H. T. Dunn; J. A. & P. Ferguson; F. Foulger & Co.; Hawley & Smith; David Hayward, Ltd.; H. W. Jones & Sons; G. B. Kent & Sons, Ltd.; Kilmister & Co.; Lawton Bros.; C. H. Leng & Sons; Maxime & Co., Ltd.; J. T. Millwood & Sons; Royal Institution for the Blind; Isaae S. Varian & Co.; W. H. Vowles & Sons, Ltd. Brushes (term contract): J. W. Boaz & Co.; F. Brockley & Son; Co-operative Wholesale Society, Ltd.; J. T. Millwood & Sons; A. Reid & Sons; J. Root & Son. Chloride of Lime: United Alkali Co., Ltd. Dental Outfits: Claudius Ash, Sons & Co., Ltd. Dental Manufacturing Co., Ltd.; Francis Lepper, Ltd.; S. Maw, Son & Sons. Disinfectant: Blagden, Waugh & Co.; Burt, Boulton & Haywood, Ltd.; Celtic Chemical Co.; Jeyes' Sanitary Compounds Co., Ltd.; Killgerm Co., Ltd.; McDougall Bros., Ltd.; Major & Co., Ltd.; Hull; May & Baker, Ltd.; T. Moscrop & Co., Ltd.; Parke's Drug Stores, Ltd.; Pearson's Antiseptic Co., Ltd.; S. Rowley & Son. Disinfectors: F. Braby & Co., Ltd.; Siemens Bros. & Co., Ltd.; Thresh Disinfect Co. Dressing, Mange (term contract): W. J. Bush & Co., Ltd. Formaldehyde: A. Ashworth. Medicines: Boots Pure Drug Co., Ltd.; The British Drug Houses, Ltd.; Burroughs Wellcome & Co.; S. Maw, Son & Sons; Parke, Davis & Co.; J. Richardson & Co. (Leicester), Ltd.; Standard Tablet and Pill Co., Ltd. Powder, Bleaching: Adeocks, Ltd. Powder, Clarifying: May & Baker, Ltd.; Reynolds & Branson, Ltd. Respirators: G. Glandfield & Son. Sodium Hyposulphite (term contract): Clegg-heaton Chemical Co., Ltd.; United Alkali Co., Ltd. Sterilisers, Milk: Aymard Patent Milk Steriliser Co. Surgical Instruments and Materials: W. H. Bailey & Son, Ltd.; Bath Cabinet Makers' Co., Ltd.; J. Bell & Croydon, Ltd.; A. Berton, Ltd.; Burroughs Wellcome & Co.; F. H. Critchley; Cuxson, Gerrard & Co., Ltd.; Darton Gibbs Co.; Gray & Selby: Hibbert Bros., Ltd.; B. Lees & Co., Ltd.; Henry Lewis; Liverpool Lint Co.; J. F. Macfarlan & Co.; S. Maw, Son & Sons; Robinson & Sons, Ltd.; Charles Salmon & Sons; T. J. Smith & Nephew, Ltd.; Southall Bros. & Barclay, Ltd.; Springfield Spinning Co. (Belfast), Ltd.; C. F. Thackray; Vernon & Co., Ltd.; H. Yager. Thermometers: Allen & Hanburys, Ltd.; Burgoine, Burbidges & Co.; O. Comitti & Son, Ltd.; A. C. Cossor & Son; Down Bros., Ltd.; Albert Lee & Co.; Mayer & Meltzer; Perken, Son & Co., Ltd.; C. F. Pizzala & Co.; G. H. Zeal.*

### Birmingham.

Southall Bros. & Barclay, Ltd., are advertising daily for boys and girls "for wrapping" and "for light work, etc."

An old man was overcome by the fumes owing to the bursting of an ammonia tank at a cold-stores in Broad Street, and died in spite of prompt medical aid.

Many local pharmacists are taking a prominent part in the Wesleyan Conference which is being held in the city this week. Sir Thomas Barclay is in great request as chairman of large meetings.

*Locum tenentes* are in great demand at present. Mr. James, of Aston, was much in request last year, but will not be available this year. He is in business at Aston, where he has a reputation as an ink-manufacturer.

The local glass-industry is extremely busy, and the operatives are uneasy regarding the war-bonus application. American glass-manufacturers are becoming keen competitors in certain branches. Glass for the use of the analyst is arriving from Sweden.

Mr. W. A. Albright, of Oldbury, has handed to the Oldbury Urban District Council a large area of ground for the purposes of a public park, playing-fields, and recreation ground. The cost of fencing, etc., amounting to 800*l.*, has been defrayed by the donor.

The Midland Remedy Manufacturing Co., 41 Great Charles Street, Birmingham, are circularising the neighbourhood regarding their postal prescription service. Examples are given of various prescriptions recommended as substitutes for certain patent medicines, with formulæ and prices.

#### Liverpool.

Girl apprentices are finding their way into local pharmacies.

Ucal chemists are making simultaneous window-displays of Ucal specialities just now.

Mr. H. Humphreys Jones, F.C.S., is spending a holiday at his old home, Glyn Bach, Talycafn, Denbighshire.

Mr. W. S. Clough, 42 Queensway, Liscard, has succeeded Mr. Vos as representative for the Vinolia Co. on the Liverpool and District ground.

Ayrton, Saunders & Co., Ltd., have experienced such a large demand for their tea-tablets that they have had to instal new tablet-making machinery.

Boots, Ltd., have just opened, at their new central branch in Church Street and Hanover Street, a *café* "for dainty luncheons and afternoon-teas."

The drug department of Cooper & Co., Church Street, is making a special offer to local photographic chemists—viz., to develop plates and films (3½ in. by 2½ in.) at 6*d.* per dozen, and quarter to half plate 8*d.* per dozen. Printing and enlargements are also done at low rates.

"A horoscope makes you look fat and ugly, but a stethoscope does just the opposite, and makes you look thin and slim." Such is the reply of a Liverpool school-girl to a general knowledge question, her mind being fixed on mirrors. Pharmacists may look for an increased sale of stethoscopes.

The late Private Charles M. M. Ellick, whose death was reported in this column last week, was the eldest son of the late J. H. Ellick and Mrs. Ellick, of the Liverpool Royal Institution, and was Private Secretary to the Master of the Warwickshire Hunt before rejoining his regiment in August last. Mr. George R. H. Ellick, the younger and surviving son, was formerly dispenser to Dr. Griffin, of Wrexham, and has been serving in the R.A.M.C., but is at present in the Fazakerley Hospital suffering from shock owing to the death of his brother.

#### Sheffield.

Among traders proceeded against on July 15 for failing to obscure effectively the lights at their premises was Mr. G. F. H. Coates, chemist and druggist, manager of Boots, Ltd., 599 Attercliffe Road. He was fined 20*s.*

Mr. Thomas Tildesley, Parkgate, and Mr. J. S. Ward, Sheffield, represented the local branch of the National Association of Medical Herbalists at the fiftieth annual Conference of the Association recently held at Worcester.

A further conference has been held between the medical practitioners and the local sub-committee in connec-

tion with the arrangements for medical attendance to dependents of soldiers and sailors. It was decided to make drastic changes in the arrangements for the distribution of prescription-books. In future the wife of a soldier or sailor with a separation allowance of 12*s. 6d.* per week, and a wife and three children with an allowance of 24*s.* per week, will not be entitled to free attendance, except in special cases. This should make a great difference in the number of prescriptions that will be presented to chemists.

#### Miscellaneous.

WIGAN CHEMISTS' HOLIDAYS.—The members of the Wigan Chemists' Association have decided to close their pharmacies on August 2 and 3.

MR. H. R. STOCKS, Ph.C., has, with the permission of the Halifax Bench, transferred his medicated-wine licence to 32 Crown Street, Halifax.

BRIGHT LIGHTS.—At Southend-on-Sea on July 13 Mr. G. Dawson, chemist and druggist, High Street, was fined 5*s.* for a breach of the lighting order.

SUNDAY HOURS.—Cheltenham pharmacists have announced their intention to discontinue attendance at their pharmacies between 2 and 5 p.m. on Sundays, owing to war difficulties in staffing.

BRITISH MEDICAL ASSOCIATION.—The annual representative meeting of this Association will be held at the Connaught Rooms, Great Queen Street, London, W.C., on July 23, and the annual meeting of the Association on July 24.

EUROPEAN OPTICAL CO. registered on July 13 as a limited partnership, Pricklers Hill, New Barnet, the general partner being G. H. Wingate, 5 Wigmore Street, W., and the limited partners H. T. Hamblin and G. M. Wingate.

POISONING CASES.—Three of the six poisoning cases reported during the week were suicidal cases. The poisons involved were carbolic acid (two cases) and spirit of salt. A carver, of Edgware Road, London, W., and a Manchester labourer poisoned themselves by drinking spirit of salt in mistake for whisky. A soldier died at St. Albans through drinking weed-killer in mistake for beer.

ALLEGED ATTEMPT TO BLACKMAIL.—At the Central Criminal Court, London, before Judge Rentoul, on July 20, an application was made for an adjournment of the trial of Hans Paul Studer (29), who had been committed for trial from Bow Street Police Court, on a charge of attempting to obtain 250*l.* by menaces from Mr. F. Schutze, of Black Bull Works, Caledonian Market, London. The application was granted, the hearing being adjourned till the next Session.

SHORT-CIRCUIT ACCIDENT.—On July 17 an alarm of fire was raised at the premises of F. B. Wride & Co., chemists, East Street, Southampton, owing to smoke issuing from the cellar. It was found that the smoke arose from a short circuit in the electric-cable conduit, and the fault was soon located and corrected. The East Street pharmacy was established in 1840, and acquired in 1853 by Mr. F. B. Wride, senr., father of Mr. F. B. Wride, Secretary of the Southampton Pharmacists' Association and of the Pharmaceutical Committee.

"ARABIAN TINCTURE."—In a case at Lancaster County Police Court on July 17, in which the Royal Society for Prevention of Cruelty to Animals prosecuted for cruelty to a mare, the defence was that it was suffering from a sprained tendon, but had been treated by the owner with Arabian tincture, purchased from Mr. James Vince, chemist, Cheapside, Lancaster, and the directions stated that if applied in a diluted state the animal could be worked while being treated with the embrocation. The Bench dismissed the case.

THE NATIONAL AMALGAMATED UNION OF SHOP ASSISTANTS, WAREHOUSEMEN, AND CLERKS has circulated the following statement: "A number of men and women employed in the wholesale drug establishments in the metropolitan area have put in to different firms for a minimum scale of pay. As the firms have not yet decided to pay same, and seem inclined to postpone the matter indefinitely, ballots of the members have been taken, and in several cases overwhelming majorities have decided to cease work unless something more satisfactory is forthcoming from the firms concerned."

BRITISH ASSOCIATION.—It has been decided, after consultation between the Council in London and the local Executive Committee, to hold the meeting of the British Association at Manchester as arranged. The original programme has been somewhat modified, and the business of the meeting will be concluded within a week of the opening date, September 7, when Professor Schuster, President-elect, will deliver an address. On September 9 Mr. H. W. T. Wager, F.R.S., will lecture on the Behaviour of Plants in Response to Light, and on September 10 Dr. R. A. Sampson, F.R.S., will discourse on A Census of the Sky.

LONDON CHEMISTS' GOLFING SOCIETY.—At the open meeting, held at Muswell Hill on July 15, Mr. J. Jones won both the Thomson Cup and the Hill Cup. The first eighteen holes counted for the Hill Cup and the double round for the other, this being decided on stroke play. Thirty members took part in the competition, and the following were the lowest returns:

*Hill Cup.*

|                      |          |
|----------------------|----------|
| J. Jones ...         | 87-18=69 |
| C. Macdonald ...     | 86-12=74 |
| W. Gray ...          | 85-9=76  |
| J. O. Scott ...      | 92-16=76 |
| G. F. Deeth ...      | 84-6=78  |
| M. W. Carmichael ... | 85-7=78  |
| A. Harries ...       | 96-18=78 |
| W. Penchen ...       | 95-16=79 |
| W. Duncan ...        | 96-17=79 |

*Thomson Cup.*

|                   |            |
|-------------------|------------|
| J. Jones ...      | 166-36=130 |
| C. Macdonald ...  | 170-24=146 |
| W. Gray ...       | 171-18=153 |
| J. O. Scott ...   | 188-32=156 |
| C. S. Presant ... | 188-32=156 |
| A. Harries ...    | 192-36=156 |
| S. Thomson ...    | 191-32=159 |
| A. Boyes ...      | 197-36=161 |

FIRES.—A serious fire occurred on July 19 at the chemical works of J. W. Leitch & Co., Milnsbridge, near Huddersfield. It originated in a still in the benzol department, and soon after the alarm was given an explosion occurred. Two fire-brigades were early on the scene, and the firemen were able to prevent the fire from spreading to the other departments. Six of the seven sheds composing the benzol department were gutted and several thousand pounds' worth of damage was done. One workman was slightly injured.—Since our last issue two outbreaks of fire have occurred at the Bump Mill and Walton Field Works of Robinson & Sons, Ltd., Chesterfield. In one case the fire is supposed to have originated in the drying-room through the overheating of material by steam-pipes. The works fire-brigade and the Corporation brigade succeeded in quenching the fire after an hour's strenuous work, but considerable damage was done. There have been five fires at the various works of the company within a few weeks.

ALLEGED EMBEZZLEMENT BY A MANAGER.—At Bow Street Police Court on July 16, George Russell, a chemist's manager, was charged, on remand, before Sir John Dickinson with embezzlement, the circumstances being as reported in the *C. & D.*, July 17, p. 37. The prisoner was also charged with the falsification of accounts and the mutilation of an account. He had to keep a cash day sheet. It was the falsification of that account which was the basis of this prosecution, said Mr. H. Jenkins, who prosecuted. On September 8 a butler paid the prisoner 13*l.* 15*s.* 1*ld.*, but that amount was not accounted for. On November 24 the same customer paid 5*l.* 17*s.* 3*d.*, but there was no record of it. On June 24 a woman, acting on instructions, bought at this shop articles amounting to 2*l.* 4*s.* She was served by the prisoner, who did not enter the amount she paid. On July 3, Mrs. Starkie, acting under advice, asked two assistants to obtain copies of the cash-sheets. There ought to have been two cash-sheets pasted together on that date, but the prisoner only accounted to Mrs. Starkie for the articles entered on one of them. The second cash-sheet was found on the prisoner in a mutilated condition when he was arrested. Evidence in support of these statements was given. Mrs. Starkie, the prosecutrix, said she lives at 126 Strand, where another chemist's business belonging to her is carried on. Both businesses had belonged to her late husband. The prisoner was appointed manager of the business at Grand Hotel Buildings by her husband in 1901. All articles sold, with the exception of those for which less than a shilling was paid, ought to be entered on the daily sheet directly the articles were paid for. In the early part of June witness asked the prisoner if the gentleman referred to by counsel was still dealing at her Trafalgar Square shop. He replied, "Yes, and there is an account now owing." The witness was questioned as to amounts said to have been received by the prisoner, who called on her every morning, and said she had no record of having received the money. The prisoner on his sheet for June 24 did not account for a hair-brush, said to have been sold for 22*s.*; a spray, 7*s.* 6*d.*; bath-tablets, 2*s.* 6*d.*; soap, 8*s.*; or essence, 4*s.* The mutilated sheet was produced, and the witness said the prisoner had never accounted for the articles mentioned on it. Mr. Jenkins mentioned that fifty books are being examined. Mr. W. Frampton, who appeared for the prisoner, obtained leave to reserve his cross-examination, and another remand was ordered.

MEDICATED BISCUITS. M. Paul d'Estrée told the Paris Society of the History of Pharmacy, were known in the days of our Stuart kings. He has found some old legal papers in the Arsenal Library dealing with a certain Clément, who was prosecuted by the Parisian apothecaries in the sixteenth century for illegal practice of pharmacy by selling purgative biscuits. Clément left his secret to his daughter, who married Charles Lheureux. The biscuits contained jalap. They were still in use in 1657, and it is said that vermifuge biscuits date from 1774.

**Irish News.**

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

**Pharmaceutical Society of Ireland.**

**Pharmaceutical Licence Examination.**—The following have passed: Timothy Horan, Listowel; William Robert Elmes, New Ross; Samuel McLoughlin, Killylea; Frederick George Smith, Maryborough; James McDowell, Belfast; Max Greenbat, Dublin; Matthew White, Sligo. Eleven candidates were rejected.

**Registered Druggist Examination.**—The following passed: Joseph Dargan, Dublin; Ernest Donel Moran, Dublin; Denis Vincent Lowney Sullivan, Cork. One candidate was rejected.

**Pharmaceutical Assistant Examination.**—The following passed: James Arthur Potter, Cork; Thomas Joseph Glynn, Gort; Denis Vincent Lowney Sullivan, Cork. Two candidates were rejected.

**Brevities.**

The Portumna Board of Guardians have refused the application of Mr. Walter Thorp, drug-analyst, for an increase of 6*l.* per annum.

At the recent examination of the Royal College of Surgeons and Physicians in Ireland, Mr. W. R. Dimond, son of the late Mr. George Dimond, Ph.C., passed his Final.

Dr. T. Mathers Thomson, Ph.C., at the close of a series of lectures given by him on "First Aids to the Injured," has been presented by the officials of the Four Courts with a silver casket as a memento of the occasion.

Shortly after 11.30 P.M. on July 17 the fire brigade received a call to the premises of Davidson & Hardy, pharmaceutical chemists, Castle Place, Belfast. The fire was confined to the store at the back of the shop, where the outbreak had originated.

Mr. J. O'Connor, Ph.C., has won the Gold Medal given by the Council of the Pharmaceutical Society of Ireland to the examination candidate who during the year has obtained the highest award of marks in the Licence examination. The medal will be presented at the annual meeting in October.

At the meeting of the Committee of Management of the Tulla (co. Clare) Auxiliary Asylum, Mr. Healy had a notice on the paper asking permission of the Local Government Board to pay 142*l.* to Boileau & Boyd, Dublin, for drugs, etc., on the ground that he believed it "was honestly due." On the representation of Mr. Daly, solicitor to the Committee, the notice was withdrawn on the ground that litigation was pending and a discussion would prejudice the case.

**Scottish News.**

Subscribers are invited to send to the Editor newspapers containing matters of trade interest. The items should be indicated.

**Brevities.**

The Marquis of Breadalbane, writing to "The Scotsman" in regard to the gathering of sphagnum moss, says that indiscriminate collection by children is wasteful. Out of six or seven large bagfuls collected by schoolchildren only one bagful of the true moss was found by experienced persons. The Marquis suggests that collectors should consult keepers and others who know the hills before they begin to work.

Closing for the Dundee dinner-hour (1 to 2 P.M.) is to come into operation on Monday, August 2. So it was decided at a meeting of leading shopkeepers. Chemists and druggists met on Tuesday evening to consider the matter. The meeting was fairly representative, and it was unanimously agreed to conform to the recommendation of the Committee on War Organisation to ask all chemists to close their premises from 1 to 2 P.M. each day except Saturday, beginning on August 2.

**Fife.**

Kirkcaldy chemists are displaying in their windows an appeal to the public to "shop early." Mr. J. B. Kirk, High Street, has made a good hit with a Wright's coal-tar soap window and the picture, "The Toast, it is Britain," which is a particular draw. Mr. A. G. Adamson, West End Dispensary, invites the public to look in his mirror, and, if need be, to secure a Zepto pencil. Another window carries a nice saline display. Messrs. David Storrar, Chas. Stewart, and J. Peebles all have seasonable displays.

Fifeshire seems to have been made the "victim" of abuse in the matter of the soldiers' and sailors' dependants' free medicine-supply, and while local chemists are willing to supply really necessitous cases, they have had to draw the attention of the Pharmaceutical Society to the indiscriminate issue of books. There are many instances of well-to-do people receiving medicines in this way. The books are issued by individuals instead of Committees, and no effort is made to ascertain the circumstances of the applicants, which was expressly stipulated when chemists signed on. So serious has this matter now become that immediate readjustment must be made if the scheme is to be carried on. Mr. Woolcock has promised to take the matter up with the Duke of Devonshire's Committee. It is felt that the Society have not made proper publicity of the fact that medicines are supplied solely as an act of patriotism by chemists, and not by the Government as is commonly supposed.

**Glasgow and the West.**

Boots, Ltd., are fitting a new branch in Greenock, which will shortly be opened.

Mr. G. H. Banks, of Cambridge Botanic Gardens, has been appointed to take charge of Glasgow Botanic Gardens.

A. B. Burns, trading as William Burns, chemist and druggist, 134 High Street, Ayr, has granted a trust-deed on behalf of his creditors in favour of Mr. F. C. Dewar, C.A., 62 Newmarket Street, Ayr.

The Committee of the Lanarkshire Pharmacists' Association has asked the Lanarkshire Public Works Surgeons Committee to consider the claim of pharmacists that payment for prescriptions dispensed for sailors' and soldiers' dependants should be made up to Insurance rates. "Increased wages-bills and the present high cost of living affect pharmacists as much as other classes to whom proportionate increases have been granted." This request is made consequent on an increased grant by the Scottish Miners' Federation, on whose conferences the pharmacists also solicit representation.

The Glasgow and West of Scotland Chemists' Association, which with its affiliated Associations is the largest Association in the United Kingdom, has, through its Trade Committee, made a novel departure by issuing a guide to retail members for general retail charges of such substances and articles as have been seriously affected through the war. The list has come as a boon, and it has been suggested in other districts that arrangements might be made on the same lines. Alterations on the list will be made from time to time. It is of interest to record some of the war prices. Among synthetics, acetanilide is 3d. per drachm, acetyl-salicylic acid 8d., hexamine 3d., barbitone 1s., phenacetin 6d., and phenazone 1s. Of alkaloids, caffeine citrate is 6d. per drachm, cocaine hydrochloride 2d. per grain, and quinine sulphate 8d. per drachm. Citric acid is 6d. per oz. and tartaric 3d. Glycerin is 2d. per oz. by weight, and salt of sorrel 4d. per oz.

**Manufacture of Alcohol.**

At a meeting of the Distillers' Company, Ltd., held in Edinburgh last week, Mr. W. D. Graham Menzies, chairman of the company, referred to the increased cost of spirits, stating that rye had more than doubled in price, and as this enters largely into the elements required for the production of yeast, the company were compelled to advance the price of that commodity. At present they are sending every week large supplies of yeast to France and elsewhere for the use of the British Expedi-

tary Forces. The immediate effect of the Immature Spirits Act was to advance the market value of matured whisky by 100 to 150 per cent., and the demand for new whisky to lay down for future requirements is more than taxing the company's efforts. Mr. Graham Menzies also stated that the company has paid special attention to the production of strong alcohol for use in the manufacture of high explosives, for which the demands at present are very heavy. The price obtained for this spirit is less than what they receive for potable spirit, but they consider it essential in the country's interest to keep the trade fully supplied, and he indicated that there are many other purposes for which alcohol may be required, and the directors are alive to the new developments of the industry.

**French News.**

(From the "C. & D." Paris Correspondent.)

**THE ROLL OF HONOUR.**—M. Onesime Vaesken, pharmacist at Wormhout (Nord), has died of a malady contracted during military service.—M. Didier Lasne, pharmacist at Chatellerault, and M. Paul Labesse, student in pharmacy, have been mentioned in Orders of the Day for their devotion to the wounded. The latter is the son of Dr. Labesse, Municipal Councillor, and now head pharmacist of No. 28 Temporary Hospital.

**DR. AUGUSTE CHAILLOU.**—The collaborator of Dr. Roux and Dr. Martin, of the Pasteur Institute, was mobilised as head of the Ambulance No. 7 (5th French Army Corps), and after publishing a remarkable report on the formation of sanitary detachments, solicited and obtained the dangerous mission of sanitary superintendent of the ground near the foremost line of trenches. There he met with his death by a shell on April 24 last.

**PRISONERS.**—Dr. Louis Decramer, of La Madeleine (a suburb of Lille), Vice-President of the General Association of French Pharmacists, was taken prisoner by the Germans while mobilised as captain of the 343rd Infantry. He is now acting as pharmacist of the prison camp at Bruckenkopf, group No. 7, Torgau-sur-Elbe. M. Maurice Vuillermoz, pharmacist, of Bourg-St.-Maurice (Savoie), was captured nine months ago while acting as Medical Corps corporal. He is at Hohenasperg. M. Brancourt, pharmacist at St. Quentin, and M. Mallet, of Vrigne-aux-Bois, have both returned from captivity.

**WAR PHARMACISTS.**—In view of the large number of ambulances and military hospitals now existing in France, the Minister of War has decided to appoint 200 second-class assistant pharmacists-majors (grade of sub-lieutenant). These are to be chosen among first-class pharmacists already serving with the Colours. A circular has been issued by the Minister of War to the C.O.s of the various Army Corps, instructing them to present by preference (1) men who had already passed the qualifying Army Pharmacy examination, but who had not yet received a commission; (2) professors and assistant professors of the various pharmaceutical schools; (3) head hospital pharmacists and D.Sc.; (5) pharmacy preparators, internes, etc. A "dossier" of the qualification of each of such candidates is to be drawn up and handed in to headquarters. The circular is signed by M. Troussaint, Surgeon-Inspector of the Forces.

**THE LATE PROFESSOR ARNAUD.**—M. Maquenne has read to the Paris Academy of Sciences an interesting biography of the late Albert Arnaud. This eminent chemist entered Chevreul's laboratory as a pupil in 1872, and took charge of it ten years later. He, however, continued his duties as preparator of organic chemistry. On the death of Chevreul, in 1890, Arnaud succeeded him as Professor of Chemistry at the Museum of Natural History (Jardin des Plantes). The loss of his son, who fell at the battle of the Marne, doubtless did much to hasten Professor Arnaud's death. At the commencement of his career his remarkable researches on alkaloids and his discovery of cinchonamine in cuprea-bark attracted the attention of many *savants*, including Pasteur and

Schutzenberger. A few years afterwards he published his first notes on the red colouring of leaves, and later his earlier researches on toxic glucosides.

ASSISTANT PROFESSOR FERNAND GUÉGUEN, of the Paris Superior School of Pharmacy, died at Pleumeur-Bodou, a Breton village, whither he had retired recently on account of ill-health. He was born



M. GUÉGUEN.

in 1872 at Loudéac (Côtes-du-Nord). He was, in 1895, a resident hospital pharmacist, and in 1897 commenced his duties as preparator at the school, and in the following year took his first-class pharmaceutical diploma and in 1899 the degree of Doctor of Pharmacy. In 1900 he directed his studies especially to cryptogamic botany, in 1902 was appointed head of the laboratory for practical microbiological work, and had been assistant professor

since 1904. Dr. Guéguen's scientific work was principally botanical and bacteriological. His book on poisonous fungi may be considered as a classic monograph on the subject, while his research work in connection with a serum for use as an antidote to the effects of poisonous fungi is also remarkable. He was looked upon as a coming man who, had he been spared to the school, would have proved worthy of its high reputation for scientific research.

## Canadian News.

(From the "C. & D." Correspondent.)

THE MANUFACTURE OF SALVARSAN.—The Commissioner of Patents at Ottawa, states the "British Medical Journal," has recently granted a licence to Mr. E. Neil Macallum and Mr. Newton Candee, both graduates of the University of Toronto and synthetic chemists of special training and experience, to manufacture salvarsan under the name of "Diarsenol," as since the war began it has become very scarce in Canada. Mr. Macallum studied for several years under Professor Schultz in Munich and Professor Perkin in Manchester and Oxford, and is well qualified to undertake this work. In order that the Canadian product may be equal in every respect to the German, arrangements have been made with the University of Toronto to test and standardise every quantity of salvarsan made before it is permitted to be used; these biological tests are being carried out in the pathological laboratories of the University and in the Toronto General Hospital. The price of the compound has been fixed by the Commissioner of Patents; it includes a royalty to the German patentees, and is only slightly in advance of the wholesale price current before last August. The Synthetic Drug Co. of Toronto will undertake to place neo-salvarsan on the market as soon as it has been able to manufacture a supply of diarsenol sufficient to meet the present demand.

PHARMACEUTICAL RECIPROCITY.—At the semi-annual Council meeting of the British Columbia Pharmaceutical Association, a report of which was given in the *C. & D.*, July 5, p. 7, a communication was read from Mr. H. E. Young, Provincial Secretary, asking the reason why the Board of the British Columbia Pharmaceutical Association would not register without examination Mr. E. H. James, a chemist and druggist, of Great Britain. The Registrar replied that the action was based on the report of a Committee appointed in 1910 to consider the question of reciprocal relations of pharmaceutical qualifying bodies. In the discussion which took place Mr. J. H. Emery contended that there was some misunderstanding with regard to the Pharmaceutical Society of Great Britain registering a British Columbia Licentiate without further examination and on payment of a fee. As he remembered it, the by-law of the British Society provided for the admission to the Register of Chemists and Druggists of persons holding Colonial certificates of qualification equivalent to the British qualification, and "no person shall be registered who fails to produce satisfactory evidence of having undergone an approved course of study and of having passed the qualifying examination of the colony in which he is registered"; conditions, he thought, no B.C. Licentiate could comply with. The meeting endorsed the action of the Registrar.

## German News.

DR. MÜHLE, of the Kaiser Wilhelm Institute in Berlin-Dahlem, has been entrusted with the publication of the scientific notes of Professor C. Liebermann, which include much work on synthetic rubber.

PROFESSOR HILDEBRAND, who held the Chair of Pharmacology of the Halle University, took a trip to the Tyrol in September 1912, but never returned. The war between Italy and the Middle Empires has been the means of clearing up the mystery, soldiers having found his corpse in a forest.

RUBBER-PRESERVATION.—A method described by Fr. G. Sauer in the "Pharm. Ztg." June 23, consists in placing the perished rubber for five minutes in a mixture of 10 parts of glycerin and 250 parts of water which has previously been warmed to 70° C. The articles are afterwards dried by laying them upon a sheet of filter-paper.

COMMANDERING CHEMICALS.—The German newspapers published on July 1 a list of chemicals the stocks of which must be registered, and which can be commandeered for war-purposes. These are saltpetre (potassium, sodium, ammonium, and calcium nitrates, and nitric acid in every concentration, crude as well as refined, and in mixtures), toluol (crude, refined, pure, and in mixtures), all sorts of nitro-toluol, Japanese camphor in all forms and preparations, glycerin (75 per cent. and over), sulphur (including sulphur, iron sulphide, zinc sulphide, sulphurous acid, and sulphuric acid).

PRICES OF MEDICINES have become much higher in Germany, and a second supplement of the "Arznei-Index" was enforced on July 1; but it is incomplete, and consequently the market-prices of several articles are higher than the tax-prices. Citric acid, tartaric acid, dried egg-albumen, arrowroot, carrageen, collodium, colophony, canella-bark, quillaia-bark, saffron, cascara, pure dextrose, marshmallow-flowers, aniseed, hemp-seed, cardamoms, isinglass, potassium chlorate, potassium tartrate, methyl salicylate, arachis oil, cinnamon oil, eucalyptus oil, sandalwood oil, sesame oil, tamarinds, hard soap, sublimed sulphur, tartrates, and turpentine are among the articles that cannot be bought by apothecaries at the tax prices.

FATS AND FIXED OILS are again becoming scarce in Germany. The owners of these products are obliged to enter them with the municipal authorities. The Duke of Saxonia-Altenburg, for example, has been entered as owner of more than 2 cwt. of fats. The decree not only concerns oil-mills, stearine, soap-factories, etc., but all persons who have in their possession any of the oils or fats in quantities over 2 cwt. The articles scheduled are:

### A. VEGETABLE OILS AND FATS.

1. *Fixed Oils*: Rapeseed oil, linseed oil, beech-kernel oil, earthnut oil, poppy-seed oil, sesame oil, sunflower oil, cotton-seed oil, wood oil, castor oil, and other fixed oils.

2. *Vegetable Fats*: Oil of theobroma, oil of nutmeg, cotton-stearine, palm oil, palm-kernel oil, coconut oil, and other vegetable fats not fit for consumption, oleinic acid (olein).

3. *Vegetable Fats and Fixed Oils* which are fit for consumption—e.g., margarine, artificial butter, and artificial food fats.

### B. ANIMAL FATS.

Suet, lard, oleo-margarine, and other fats of this kind. Premier jus, tallow of cows and sheep, bone fat, whale oil, and other animal fats not specially mentioned.

TALC AS A SUBSTITUTE FOR FAT is a subject about which Herr Merz writes in the "Pharm. Ztg." of June 23. Large quantities of starch can be spared, he writes, by making use of talc, and talc can also be used for economising fat, as it has greasy properties and can therefore be used as a substitute for fatty substances in ointments. Some years ago the firm Merz & Co. began a series of experiments in this direction as a continuance of researches about the suitability of graphite as a substitute for lubricating-oils. A mixture of graphite and water has the consistency of a soft ointment; that is why the first experiments with talc were also made with mixtures of talc and water, in order to seek an artificial product that could serve as a substitute for lard, soft paraffin, etc. These experiments did not lead to a successful result. A mixture of talc and water has the consistency of a paste, but it is not homogeneous. The product could be improved by adding to it slimy vegetable substances—e.g., quince mucilage—but the mixture had the disadvantage that iron rusted in contact with it. A second series of experiments was therefore made, with the result that a preparation called "Merzaline" has been made, which consists of talc, vaseline oil, paraffin, ceresin, and "serol."

## Legal Reports.

### Trade Law.

**"Wincarnis."**—Mr. A. J. Walter, K.C., mentioned to Mr. Justice Sargent in the Chancery Division on July 16 a motion, Coleman & Co., Ltd. v. Nash, the plaintiffs being the manufacturers of "Wincarnis." He said the motion was for an injunction in a "passing-off" action, but by consent the motion would be treated as the trial of the action, the defendant submitting to a perpetual injunction in the terms of the notice of motion.

**Does Petrol Spoil Bottles?**—In the City of London Court, before Judge Atherley-Jones, K.C., last week, the London Bottle Co., Ltd., 165 Fenchurch Street and Millwall, brought an action against the owners of the motor schooner *Goodwin* for 100*l.* damage done to bottles which were shipped from Schiedam to Millwall. Eighty-four gross quart screw bottles were saturated with petrol used for propelling the vessel. Defendants paid 25*l.* into court in respect of the petrol damage, and the Registrar had held an inquiry to ascertain if that was sufficient. He came to the conclusion that 56*l.* 14*s.* should be paid, holding that the bottles were useless after being petrol-stained. There was no market for them. Defendants appealed against the findings, but the appeal was dismissed, with costs.

**Use of Rejected Tin Boxes.**—A dealer named Joe Nathan purchased a quantity of tins which had been rejected as not up to sample by Robert James Baldwin, trading as the Swift Polish-manufacturing Co., and filled them with a polish of his own, selling them at a lower price than the plaintiff's polish. Mr. Baldwin applied to Mr. Justice Sargent in the Chancery Division on July 16 for an injunction restraining Nathan from continuing to "pass off" his goods as the plaintiff's, and counsel said that plaintiff sold the tins on the undertaking that the lids of the tins, which bore the words "Swift Waterproof Polish" and his trade-mark, should not be used. His Lordship granted the injunction, with 5*l.* damages and costs, against the defendant, who pleaded that he acted in ignorance of the law.

**The "418" Patent.**—A further hearing of this case (see *C. & D.*, March 27, p. 63) took place at the Patent Office, London, on July 9. The application was on behalf of the Société Anonyme les Etablissements Poulenec Frères for the avoidance or suspension of patent 17619 of 1907, entitled "Reduction products of *p*-amino-phenylarsenic acid and its derivatives," belonging to the Farbwerke vormals Meister, Lucius & Brüning, Hoechst. Mr. H. E. Potts represented the applicants, and Mr. Hunter Gray was retained by the representatives in this country of the owners of the patent. The chief additional evidence put forward by Mr. Potts was that his clients believe they have so improved the product referred to in the patent, and known as "418," that it is more stable. It is desired to employ the product in the treatment of syphilis as an alternative medicament to salvarsan.

**Chemist's Shop Damaged.**—At the Portsmouth County Court, before Judge Gye, on July 15, Mr. Francis H. Ruoff, chemist and druggist, 12 London Road, Portsmouth, brought an action against Long & Co., brewers, of Southsea, to recover 66*l.* 14*s.* 2*d.* damages alleged to have been wrought by the negligence of the defendants' servants. It appeared from the evidence that a motor lorry of defendants was left on the street, and two inebriated soldiers pulled the levers of the engine, with the result that it started and did a lot of damage, including that to plaintiff's premises and stock. After hearing evidence and counsel his Honour held that the engine ought not to have been left unattended in a crowded thoroughfare, where it was possible for mischievous persons to set it in motion. He held that the defendants were liable and found for the plaintiff for 60*l.*, with costs. Notice of appeal was given, and a stay of execution was granted pending the appeal.

**Medical Acts.**—At the Sheffield Police Court on July 16, William Williams Alnwick, 8 Underwood Road, Woodseats, the defendant, was fined 30*l.* for that, not being a registered medical practitioner within the meaning of the Medical Acts of 1858 and 1886, and not being a person recognised by law as a physician, surgeon, licentiate in medicine, or an apothecary, he did unlawfully pretend to be, and did take and use the title and description of a surgeon on three different occasions. The Medical Defence Union prosecuted, and it was proved that defendant had given medical certificates and rendered bills on which he called himself M.B. of New York, M.D. (London), registered dental surgeon, and surgeon. Defendant put in a dental registration form dated 1895, and said he was a

registered dental surgeon as far back as 1878, but his name had dropped off the register as he had not troubled about it. It was stated that in 1906 he had been fined 5*l.* for forging a death certificate.

**Interest on Overdue Accounts.**—In the City of London Court on July 15, Judge Rentoul, K.C., heard the case of Hunt v. Dean, in which plaintiff claimed 4*l.* 13*s.*, balance of account for goods supplied, and the defendant paid most of the amount into Court, but disputed a charge for interest on overdue accounts. Plaintiff said he gave his customers six months' credit, and informed them on the invoices that 5 per cent. interest would be charged if the accounts were not paid promptly. He wrote also to the defendant and told him specifically that interest would be charged in future on overdue accounts. Defendant swore positively that no notice was given him, and that he had always refused to pay the interest. Judge Rentoul said that the plaintiff was quite right in thinking that notice must be given before interest could be charged, but in the present case there was not sufficiently clear evidence to show that the defendant had received due notice that interest would be charged. He therefore could not allow it in that instance. He gave judgment for the plaintiff for the balance, and costs.

**Prices Current Case.**—The motion by the proprietors of the "Manufacturers' Prices Current, Ltd.," against Burgoynes, Burbidges & Co. (*C. & D.*, July 10, p. 39) was before Mr. Justice Sargent in the Chancery Division on July 16. Its object was to restrain the defendants from making use of portions of the plaintiffs' publication for the benefit of a publication of the defendants. Mr. Clauson, K.C., for the plaintiffs, said the defendants had had an opportunity of looking into the matter, and had found that that of which the plaintiffs complained was due to a want of supervision in the office. They admitted that the plaintiffs were justified in their action and said that the mistake was due to a slip, the wrong things being inserted. He (counsel) accepted that, and did not ask for an injunction as the defendants had been good enough to explain what had occurred. Mr. Henry Terrell, K.C., for the defendants, said that since the war began they had been very much rushed, and by a mistake certain leaflets were omitted that would have put the whole matter right. They were willing to pay the plaintiffs' costs. His Lordship made an order staying all proceedings, the defendants paying the plaintiffs' costs.

### Ram's Head Dip Appeal.

The Judicial Committee of the Privy Council on July 20 reversed the decision of the Appellate Division of the Supreme Court of South Africa in the case of the British South Africa Co. v. Lennon, Ltd., which was in respect to the labelling of Ram's Head Cattle Dip sold by the defendant company as reported in the *C. & D.*, December 27, 1913, p. 77, and January 31, 1914, p. 189, and in the *C. & D.*, July 11, 1914, p. 39. In the first instance judgment was given against Lennon, Ltd., the Judge of the High Court of Southern Rhodesia awarding the buyers of the dip 2,000*l.* damages, whereupon Lennon, Ltd., appealed to the South African Appellate Division and their appeal was allowed. From this decision the British South Africa Co. appealed to the Privy Council. Sir Robert Finlay, K.C., Mr. Tredgold, K.C., and Sir Hamar Greenwood appeared for the appellants; Mr. Leslie Scott, K.C., and Mr. Douglas Hogg for the respondents. On August 16 ten drums, each containing 56 lb., were delivered to Harrington, but the invoice was sent to the appellants' farms office at Salisbury, whence the order came. On each of the drums was a red label giving directions in English and Dutch. An assistant of Lennon, Ltd., in his evidence, said that a week after forty-three drums, marked merely "Poison," arrived from England the labels came to hand, and without reading them he stuck them on the drums. Harrington, in his evidence, said he concluded from the labels that he had received 85 lb. and, to fill two tanks, would require 50 lb. more. For this he wired. Another drum was sent. A veterinary surgeon told Harrington the label must be correct and the contents of the drum was probably a compound. Harrington said that when he prepared the dip he believed he was one tin short of the amount required for a tank containing 4,350 gals. of water, but felt he was on the safe side. The contents of the ten drums was dissolved in boiling water and placed in this tank, and the herd were driven through it. This was a highly poisonous dip. Some of the cattle absorbed through the skin a quantity of arsenic, and others by licking passed arsenic into the stomach and intestines. Two Judges of the African Appellate Court held that Harrington was guilty of want of ordinary care in following the directions on the label and did not act as a reasonable person. A

wire from the farm's office said, "Two lots have been sent, one 50 lb. and the other 5 cwt." Harrington, in evidence, said he thought this implied he had received 93½ lb. and the rest was on the railway.

Lord Sumner, in the course of his judgment on behalf of the Judicial Committee (Viscount Haldane, Lord Dunedin, and himself), said a majority of the Supreme Court of South Africa held that Harrington should have understood from the telegrams that he had received all the drums sent, and that they contained 5½ cwt. of arsenite of soda. Harrington might have been stupid, but his judgment might have been honestly at fault. The trial Judge said Harrington was an educated man who gave his evidence well and honestly. Nicely scrutinised (Lord Sumner went on) the wires about "5½ cwt. in two lots" might have disclosed that it was in eleven drums, the very number Harrington had in hand, and therefore that it had all been delivered to him, but this riddle was by no means easy for a stockman to read. That he went through no particular mental process, but simply accepted the explanation which occurred to him, was neither astonishing nor careless in itself. The egregious person, added his Lordship, who stuck the labels on the drums was never asked to say that upon inquiry from outside he would have made a clean breast of what he had done. It was not at all certain that inquiry of the firm would immediately have elicited the mistake. It ought to be remembered throughout the case that admittedly Messrs. Lennon's reputation in their business was high, and that their clerk's blunder was as extraordinary as it was unpardonable. Persons in Harrington's position, or in the position of the officials at Salisbury, were warranted in putting great faith in the correctness of the labels under which Messrs. Lennon sent out their goods, and, however they might be perplexed by the discrepancy between the label and the weight of the drum, could not be reasonably expected either to hit on the true explanation of it, or to hold their hands for fear that a description proceeding from so respectable a firm might yet be so grossly erroneous. If no such idea occurred to them, they could not be stamped as negligent in consequence. Harrington was preoccupied, and not unreasonably, by the fear that he had not arsenite of soda enough, not that the label was false or that he had far too much. His duty was to make and use a dip with the arsenite of soda ordered by the Salisbury office and sent in by Messrs. Lennon. If the dip was too weak it might not kill all the ticks, but at any rate it would not kill any cattle. Why should he be expected to divine that, on the contrary, thanks to the defendants' fault, his dip was too strong and his surmises were mistaken? After careful examination of the evidence their Lordships had been unable to avoid the conclusion that the decision of the trial Judge was not reasonably open to exception, and that there was no sufficient ground for interfering with it, and they would advise his Majesty that it should be restored, and the judgment appealed against should be reversed and the present appeal be allowed, with costs here and below.

## High Court Cases.

Unless when otherwise stated these cases have been heard in the High Court of Justice, London.

### WHAT IS MALTED MILK?

In the Chancery Division on July 19, Mr. Justice Joyce commenced the hearing of the action by Horlick's Malted Milk Co., Wisconsin, U.S.A., and Stoke Poges Lane, Slough, Bucks, against William Summerskill, of Hedley's Malted Milk, New York, and Manor Park, Lee, Kent, which was, as explained by Mr. Walter, K.C. (with him Mr. Sebastian and Mr. Whitehead), for the plaintiffs, for an injunction restraining the defendant from using the words "malted milk" in connection with any preparation other than that of the plaintiffs, on the ground that it was calculated to deceive the public into the belief that they were buying plaintiffs' goods, but no actual instance of deception having taken place was alleged. Mr. Kerly, K.C., and Mr. Gover were counsel for the defendant.

Mr. Walter explained that Horlick's Malted Milk was introduced into the English market in 1890, and he contended that the words "malted milk" were distinctive of plaintiffs' goods. As a matter of fact, it is impossible to malt milk. Defendant says his preparation is pure milk dried with the enzymes of malt. It really is a mixture of malt and milk, but it is not malted milk. If he calls it malt and dried milk there is no objection, but he claims the right to call it "malted milk." His preparation differs altogether, chemically and in colour, taste, and odour, from the plaintiffs'.

Mr. Horatio Ballantyne, F.I.C., F.C.S., gave evidence in support of Mr. Walter's statement. In 1905 he analysed plaintiffs' preparation, but was unable to discover the articles from which it was made. He made another effort

later on for another client, but failed again to get the result he wanted, and dropped the work in both cases. He had since had the opportunity of seeing plaintiffs' process, and the principal part of it was a complete novelty to him. He had never seen it described anywhere. The defendant's materials were not the same as those of the plaintiffs. There was no difficulty in distinguishing between them, the colour, taste, smell, physical characteristics, and microscopic appearance being all different.

Mr. Kerly (in cross-examination) asked how plaintiffs make their malted milk, but the witness would not reply, and his Lordship said he was not bound to. Other questions were put and answered, but Mr. Walter objected to some.

Evidence as to what the public want when they ask for malted milk was given by Mr. J. M. Edwards, chemist and druggist, 313 Fulham Palace Road; Mr. W. H. Argles, director of Hancock & Co., chemists and druggists, 128 Fleet Street; Mr. T. C. Mansell, manager of the drug department of the Junior Army and Navy Stores, 15 Lower Regent Street; and Mr. T. G. Heighington, manager of the drug department of Selfridge's, all independently agreeing that Horlick's Malted Milk is wanted and supplied. In cross-examination questions were put about Macfarlane's Malted Milk Biscuits, Allen & Hanburys' Malted Food No. 3, and Malted Cocoa.

The hearing was adjourned until Tuesday.

When the hearing was resumed then, Mr. John Henry Pezzheck stated that at the request of the plaintiffs he sent written orders for "malted milk" to the C.S.S.A., Whiteley's, Harrod's, and Spiers & Pond's, and in each case was supplied with Horlick's.

Mr. Charles M. Phelps, manager of plaintiffs' factory at Slough, said that they sold last year 1,500,000 lb. of malted milk. In cross-examination he denied that the firm had told the medical profession that there is no secret about its manufacture.

Mr. Kerly referred to litigation in the United States between plaintiffs and the Elgin Milkine Co., in the course of which it was stated that Horlick's process is as follows:

"Coarsely ground malt and wheat-flour are macerated in water, raising the temperature to 150° F., holding it at that temperature for about half an hour so as to ensure the conversion of the starch in the flour into dextrin and maltose, or malt-sugar; then raising it to a temperature of from 165° to 170° F., holding it there for about fifteen minutes; then running it into a press, and expressing all of the liquor out of the mashed grain; then passing it through fine sieves; then evaporating this liquor to a thick syrup; then adding the cow's milk, the whole milk; then raising the temperature to at least 160° in order to pasteurise; then evaporating in vacuum pans, where it is agitated; add salt and bicarbonate of potash and soda to the total amount of one-half of 1 per cent.; then grinding the dry mass to a granulated form or powder, packing it in air-tight glass jars with paraffin sealing and metal caps with screw connection."

Counsel said the evidence in that case also was that for thirteen years Horlicks had used a label with the word "patented" on it, and that this label was omitted on packages sent gratuitously to physicians and to Great Britain.

Witness would not admit that "malted milk" is a well-known description of a food in the United States apart from Horlick's, but agreed that he had seen Borden's Malted Milk, Thompson's Malted Milk, and A.D.S. Malted Milk on the market in the United States. He did not know that "Malted Milk" is on the Register of Trademarks in the United States. In this country he had heard of Macfarlane, Lang & Co.'s Malted Milk Biscuits, Halton's Malted Milk Toffee, and Fry's Malted Cocoa.

Reference was made to Sir James Horlick, and Mr. Walter explained that he was dangerously ill and unable to attend the Court.

A number of chemists from different parts of England and Wales were called to prove that when asked for "malted milk" they understood that Horlick's is required. Mr. T. Maltby Clague, Ph.C., Newcastle-on-Tyne, and Mr. Harry Kemp, chemist, Chorlton-cum-Hardy, Manchester, were among these.

Mr. Sebastian, summing up plaintiffs' case, admitted that he could not prove a single instance of deception, but gave as a reason for this that "only a very few tins of Dr. Summerskill's preparation was sold."

His Lordship: You have got no trade-mark, but want to monopolise the word.

Mr. Sebastian denied this, and argued that the name "malted milk" had become distinctive in the minds of the trade and the public of plaintiffs' goods.

Mr. Kerly then called his evidence at once.

Dr. William Summerskill said he used the name Hedley, which was his mother's maiden name, because it is short.

He had for many years interested himself in research, both in connection with food and drugs, and in recent years in devising a suitable food for consumptives. He studied the question of the digestion of starchy foods, and in the course of those studies he devised a preparation composed of malt and milk, which he thought would be a suitable food and called it "Hedley's Malted Milk," because he thought that was the proper description of his preparation, which is malted milk. He never had any intention of causing his preparation to be passed off for that of the plaintiffs', which was not malted milk—no malt and very little milk. He never sold his preparation under any other name than that of Hedley's Malted Milk. In 1911 his gross sales amounted to 65/-, in 1912 22/-, 1913 35/-, and in 1914 63/- 1s., so that he had not made much profit so far. Cross-examined by Mr. Walter, witness said that he did not agree that Horlick's had made the term "malted milk" a valuable one in this country. Malted milk had been ordered by medical men ever since he could remember, and they made it in the hospitals.

Resuming on Wednesday morning, his Lordship suggested a settlement. He understood that Dr. Summerskill had no intention of competing commercially with the plaintiffs. If the case was taken to the House of Lords it would cost him thousands of pounds. Would it not be worth his while—without any imputation whatever upon him—to make some slight alteration in the name of his preparation?

Mr. Kerly said he had very little expectation of this case going to the House of Lords. There were other matters behind—other people were using the term malted milk.

His Lordship: Oh, if there is a combination—

Mr. Kerly said that was not so. Dr. Summerskill was bearing the whole cost of this fight. He (counsel) and Mr. Walter had discussed the matter, and he was afraid nothing could be done in the way suggested by his Lordship.

Dr. Hector C. Cameron, physician in charge of the department for children's diseases at Guy's Hospital, said he was accustomed to use malted milk. He did not understand the term to be restricted to any particular person's preparation. He had directed his nurses to make malted milk from malt flour and milk according to the published description by Professor von Liebig.

Mr. William Christie, general manager to Macfarlane, Lang & Co., Glasgow and London, said his company had been selling "malted milk biscuits" since 1904. In 1913 they sold between five and six millions of these biscuits (about 120,000 lb.). Some years ago they were threatened by Horlick's, and replied that they were prepared to defend the proceedings. They heard no more of the matter.

This concluded the evidence.

Mr. Kerly, summing up defendant's case, declared that this was an attempt by the plaintiffs to monopolise common words beyond all bounds. It was entirely without successful precedent, and almost without precedent as an attempt. The words came from the United States, where in 1903, in the Elgin case, an unsuccessful attempt was made to get a monopoly of them. From that time all other malted milks had been openly sold in the United States. Was the Court going to say that if he imported Borden's Malted Milk he could not sell it in this country? He submitted that the words were descriptive and not distinctive of anybody's goods.

Mr. Sebastian, in reply, contended that the use by the defendant of the words in dispute was calculated to lead to confusion and cause "passing off." Surely if that was not the defendant's intention he could have used one of many other phrases which would have better described his preparation. He did not allege any intentional fraud on the part of Dr. Summerskill, but his goods were not sufficiently distinguished from those of the plaintiffs, and he asked the Court to say that this should not be allowed to continue.

His Lordship reserved judgment.

## Gazette.

### Partnerships Dissolved.

DOBASHIAN, G. R., and GRAVES, A. J., 36 and 38 Oakley Square and 172 Ossulston Street, London, medical practitioners, under the style of Dobashian & Graves.

SINCLAIR, W., and LIVINGSTON, J., Barrow-in-Furness, physicians and surgeons, under the style of Sinclair & Livingston.

### Bankruptcy Acts.

#### RECEIVING ORDER.

BUCKLEY, J., 101 Broughton Lane, Salford, physician.

#### ADJUDICATION.

VEREND, W., Graham Road, Sheffield, surgeon.

## Limited Companies.

### New Companies Registered.

P.C. means Private Company and R.O. Registered Office.

E. H. WHEELER & Co. (MANCHESTER), LTD. (P.C.)—Capital 5,000/. Objects: To carry on the business of indiarubber manufacturers, extractors, etc. R.O., 8 South Parade, Deansgate, Manchester.

INVICTA GLASS AND NAUTICAL INSTRUMENT Co., LTD. (P.C.)—Capital 10,000/. E. Roberts is chairman and managing director with 500/- per annum as remuneration. R.O., Aldermans House, Bishopsgate, E.C.

R. S. NEWMAN, LTD. (P.C.)—Capital 2,000/. Objects: To take over the optical business carried on as "R. S. Newman" at 72 New Oxford Street, W.C. The first directors are Mrs. R. Neumann, Mrs. J. B. Mitchell, and J. M. McKim.

RUBBER SPONGES, LTD. (P.C.)—Capital 100/. Objects: To carry on the business of manufacturers of and dealers in articles consisting of rubber or other gums or substitutes therefor, etc., and to adopt an agreement with P. Schidrowitz, H. A. Goldsborough, B. C. Hinman, and G. W. Beldam. R.O., 15 Angel Court, E.C.

### Company News.

TRAVANCORE MONAZITE Co.—The "Statesman" reports that a new company has been floated to work monazite in Travancore State. It is started by Messrs. Hopkins & Williams, Ltd., London. The Secretary of State sanctioned last month the issue to them by the Travancore Government of a lease for twenty years of a plot of 150 acres on a royalty of 3,000/- a year. An efficient scientific staff has been organised to work the concern, which comprises Mr. Edmund White, B.Sc., F.I.C., and Mr. E. Malillamoney, B.Sc., A.R.C.S., State Geologist, who relinquishes his appointment with the Travancore Government, and Mr. Ralph Taylor, late of Chisholm Ewart & Co., Colachel, joins as general manager. It is hoped to start operations in October next. This is the second venture to work monazite in Travancore, the first one being what is now known as the Travancore Minerals Co., which is under the management of Mr. C. W. Schomburg, who became a naturalised English subject five years ago.

## Bankruptcy Report.

RE MORTON DODGE, Broom Cottage, Marsland Road, Sale, Cheshire, and 1 Albert Square and 9 Clarence Street, Manchester, Pharmacist and Optologist.—At the public examination of this debtor in the Manchester Bankruptcy Court, on July 16, it was reported that the gross liabilities were 1,669/- 11s. 10d., expected to rank 1,492/- 8s. 9d./, and preferential claims (128/- 3s. 1d./) were expected to yield 5d. Debtor attributed his failure to heavy payments for rent and rates in proportion to turnover owing to the war, the forced removal from 1 Albert Square premises, increased standing expenses in the Clarence Street shop, and loss by burglary at the latter establishment. He stated that he qualified in 1895, and after being employed in a Manchester chemist's shop for about two years he commenced business on his own account, borrowing 300/- and purchasing an established business at 139 Great Ducie Street, Strangeways, for 300/- (nothing for goodwill). He got more than value for what he gave, and was able to repay the money he had borrowed within a short time. He continued there until 1908, when he took his Albert Square shop on a five-years' lease at a rental of 250/- per annum. He was unable to sell his old business, and removed to Clarence Street. In the first complete year (1909-10) his takings were 1,006/-, in the next year 1,192/-, in the following year 1,300/-, and in 1912 13,134/- He opened the Clarence Street shop last year as he had notice to leave the Albert Square shop. The examination was closed. The following are creditors: Ashton & Parsons, Ltd. (5/-); Erasmic Co. (4/-); Scholl Manufacturing Co. (8/-); J. Quilliam & Co., Ltd. (11/-); McGeson & Co., Ltd. (10/-); J. H. Haywood, Ltd. (5/-); S. Maw, Son & Sons (7/-); Nelson Scott, Ltd. (4/-); British Drug Houses, Ltd. (8/-); Warrick Bros., Ltd. (11/-); J. C. Gambles & Co. (10/-); J. & E. Atkinson (5/-); T. Christy & Co. (5/-); H. & T. Kirby & Co. (14/-); D. & W. Gibbs, Ltd. (7/-); May, Roberts & Co., Ltd. (5/-); Hawker Bros. (3/-); The J. B. Williams Co. (3/-); Tokalon, Ltd. (11/-); J. F. Hatrick & Co. (5/-); Thermos, Ltd (4/-); Yardley & Co., Ltd. (3/-).

**Birth.**

Authenticated notices are inserted w'thout charge.

PETERS.—On July 16, the wife of Arthur L. Peters, chemist and druggist, 16 Branch Road, Armley, Leeds, of a son.

**Marriages.**

Authenticated notices are inserted without charge.

BRITTAINE—LEETE.—At Old Clee Parish Church, on July 3, Second Lieutenant R. H. Brittain, 3rd Battalion Lincolnshire Regiment, and of Prichard & Constance (Wholesale), Ltd., to Edith Christine Leete, Fernleigh, Belmont Road, Twickenham.

DOBSON—POOLE.—At Christ Church, Streatham Hill, London, S.W., by the Rev. C. C. Dobson, on July 19, Dr. W. Townsend Dobson, Cardiff, to Catherine Grace, elder daughter of Mr. H. Poole, Brixton.

FREEMAN—LUNN.—At St. Stephen's Church, Putney, S.W., by the Rev. H. Wilcox, M.A., on July 17, John Edward Freeman, chemist and druggist, to Olive Kathleen, daughter of the late W. H. Lunn, of Southampton.

HARDY—TENNANT.—At St. John's Church, Monkstown, co. Dublin, on July 12, Robert J. Hardy, M.P.S.I., 1 Rathmines Terrace, Dublin, to Margaret F. Tennant, eldest daughter of Mr. R. Tennant, Monkstown.

HUDSON—SHIMMELL.—At St. Margaret's Church, Plumstead, London, S.E., on July 4, Hubert Ernest Hudson, chemist and druggist, son of Mr. A. W. Hudson, chemist and druggist, Cranbrook (Kent), to Florence Mary, second daughter of Mr. A. Shimmell, Plumstead.

MAYRS—BUSHBY.—At Grace Church, Broadway, New York, by the Rev. B. M. Washburn, of the Episcopalian Church, recently, John B. Mayrs, 660 Riverside Drive, New York, representative of Burroughs Wellcome & Co. in the U.S.A., to Florence Cassandra, elder daughter of Mr. John Bushby, The Laurels, Wombwell, near Sheffield.

WILSON—ELDRIDGE.—At Ellesborough Church, on July 12, Edgar Wilson, pharmacist, 356 Essex Road, Islington, London, N., to Margaret Alice, eldest daughter of Mr. and Mrs. J. Walter Eldridge, The Dell, Ellesborough.

**Deaths.**

Authenticated notices are inserted without charge.

BRANDRETH.—At Eureka Springs, Ark., U.S.A., on July 13, Mr. Henry Daubeneby Brandreth, formerly of Hoylake, Cheshire, and Dolwyddelan, North Wales, aged sixty-nine. Mr. Brandreth was formerly connected with the Allcock Manufacturing Co., proprietors of the well-known plasters and of Brandreth's pills, the European and Colonial dépôt of which is at Birkenhead, and with this he was long associated. He resided for a number of years at Hoylake, and at one time lived in the summer months on Hilbre Island. Twenty-five years ago the fine house and beautiful garden of Mr. Brandreth was one of the "show places" of Hoylake, and his horticultural enterprise set an example which has been extensively followed. In his retirement he devoted much time to temperance work, and to this cause and religious institutions he was a liberal giver.

CUTHBERT.—At Preston, on July 17, Mr. Thomas Harrison Cuthbert, chemist and druggist, assistant to Mr. W. Woodruff, chemist and druggist, Cheadle, aged thirty-seven. Mr. Cuthbert had just joined the Colours and was proceeding to Ross-shire for training, when, near Preston, he fell from the train in which he was travelling and was run over by a train coming from the opposite direction. He died in Preston Infirmary from his injuries.

DAY.—At 45 Kildare Street, Dublin, on July 15, Mr. J. M. Day, LL.D., a director of Cantrell & Cochrane, Ltd., aerated-water manufacturers, Dublin and Belfast, aged sixty-two. He was a son-in-law of the late Sir Henry Cochrane, Bart.

ENGLISH.—At Mullingar, on July 14, Mr. Patrick John English, Ph.C., aged sixty-two. He became a Licentiate of the Pharmaceutical Society in 1879.

HITCHCOCK.—At Crosborough House, Widmore Road, Bromley, on July 9, Mr. Charles Garrad Hitchcock, Ph.C., formerly of 108 High Street, Oxford, aged seventy-two.

LATTIMER.—At 41 Dowanhill Road, Catford, on July 18, Gertrude Alice, wife of Mr. Hugh Lattimer, Secretary of

the Indo-Burma Co., Ltd., Wool Exchange, London, E.C., aged thirty-four.

McMICHAEL.—At the Medical Hall, Ballycastle, co. Antrim, Christine (Ena), twin daughter of James and Brigid Rose McMichael, aged two.

MEYRICK.—At Coventry, recently, Annie, widow of Edwin Owen Meyrick, chemist and druggist, Shifnal, aged seventy-seven.

PITMAN.—At Weston-super-Mare, on July 19, as the result of being knocked down by a motor, Mr. John Pitman, chemist and druggist, formerly of 42 Redcliff Hill, Bristol, aged seventy-four. Mr. Pitman was registered as in business before 1868, and was a well-known West Country pharmacist. In 1875 he acted as Hon. Local Secretary to the British Pharmaceutical Conference, then assembled at Bristol, with Mr. T. B. Groves as President, and was so indefatigable in his exertions to make the Conference a success that he was specially complimented at the close of the gathering. His pharmacy was situated in a busy neighbourhood at Redcliff Hill, and was a model of a smart and well-kept pharmacy.

SHAW.—Suddenly, at 11 Little Stanhope Street, Mayfair, London, W., on July 13, Mr. Tom Shaw, chemist and druggist, aged forty-nine. In his early days Mr. Shaw was assistant to Mr. Warner, Piccadilly, and ultimately took over the business, which he subsequently removed to Little Stanhope Street. While motoring with a party of friends in 1913 the car was overturned near the Devil's Punch Bowl, Sussex, and Mr. Shaw sustained severe injuries to the head. An inquiry was held on July 16, when a verdict of death due to epilepsy resulting from the accident was returned.

**Killed in Action.**

COUVE.—Killed in action, at the Dardanelles, Lieutenant Allan C. Couve, 8th Battalion Infantry, First Contingent Australian Expeditionary Force, son and pupil of Mr. Jason Couve, chemist and druggist, Lonsdale Street, Dandenong, Victoria.

**Died from Wounds.**

KEIRAN.—Died of wounds received at the Dardanelles, Lieutenant R. C. Keiran, Australian Expeditionary Force, son of Mr. J. D. Keiran, dispenser, Collingwood U.F.S. Dispensary, Collingwood, Vict., aged twenty-six.

MACBETH.—On board a hospital ship, on June 30 (from wounds received in action at the Dardanelles), Private Angus Hugh Macbeth, 7th Battalion Scottish Rifles (T.E.), chemist and druggist, Tarbolton, Ayrshire.

**Wills.**

MR. ARTHUR ALBERT JEYES, chemist and druggist, 38 The Crescent, Phippsville, Northampton, who died on March 24, left estate of the gross value of 17,521*l.*, with net personality 4,494*l.* Letters of administration have been granted to his widow, Mrs. Evelina Jeyes.

MR. JOHN JAMES SHAWYER, chemist and druggist, 12 Wood Street, Swindon, who died on May 5, left estate of the gross value of 6,088*l.*, of which 1,902*l.* is net personality. Probate of his will has been granted to his widow, Mrs. Alice Margaret Shawyer, to whom testator left all of his property absolutely.

SIR JAMES DUCKWORTH, Castlefield, Drake Street, Rochdale, a director of the Eastern, Western, Southern, and Lancashire companies of Boots Cash Chemists, Ltd., who died on January 1, left estate of the gross value of 67,479*l.* 18*s.* 6*d.*, of which the net personality has been sworn at 47,051*l.* 15*s.*

MR. EDWARD AUGUSTUS RUCKER, Cudham Hall, Cudham, Kent, senior partner in the firm of Messrs. I. A. Rucker & Bencraft, colonial brokers, 37 Mincing Lane, London, E.C., who died on June 13, left estate of the gross value of 192,219*l.* 2*s.* 9*d.*, of which the net personality has been sworn at 191,419*l.* 2*s.* 9*d.*

MR. OSMOND HICKS, Dunster House, Mincing Lane, London, E.C., and of The Chalet, Esher, Colonial broker, who died on May 31, left estate of the gross value of 68,166*l.* 10*s.* 2*d.*, of which the net personality has been sworn at 68,076*l.* 3*s.* 8*d.* Probate of his will, dated February 18, 1914, has been granted to his widow, Mrs. Winifred Amy Hicks, his brothers, Mr. E. Hicks and Mr. A. Hicks, and Mr. C. B. Virtue. The testator left 300*l.*, his household and personal effects, and consumable stores to his wife absolutely, and directed that her income (exclusive of that from certain freeholds and leaseholds) should be made up to 1,500*l.* per annum during widowhood, or 750*l.* per annum in the event of her re-marriage.

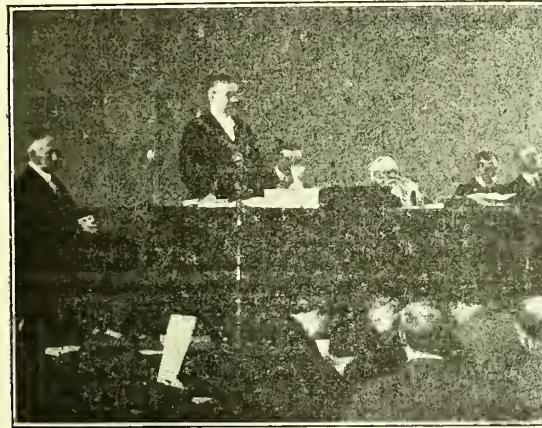
# Society of Chemical Industry.

## Annual Meeting.

THE report of the proceedings of the annual meeting held in Manchester, which we published last week, dealt with events up to Wednesday night.

### THURSDAY'S PROCEEDINGS.

On Thursday, July 15, the reading of papers was continued at the School of Technology, a smaller room being used. Dr. M. O. Forster, F.R.S., read the first paper on "Research and Chemical Industry," which contained



**Photo]** [Cleworth.  
THE LORD MATOR WELCOMING THE MEMBERS TO MANCHESTER.  
On his left are Professor Henderson (President), Mr. T. Tyrrer (Treasurer), Sir William Ramsay, and Dr. C. C. Carpenter (President-elect). Mr. C. G. Cresswell (Secretary) is on the right of the Lord Mayor.

a scheme for a Chemical Intelligence Department to be instituted by the Government as a branch of the Board of Trade. Dr. C. C. Carpenter followed with a paper on "Research in Technology," in which he said that manufacturers should be able to draw upon technological knowledge acquired by research in the same manner as does the chemist from a scientific library.

These two papers were discussed together, in the course of which Mr. Carr and Mr. Clayton pointed out that more technical libraries might be provided on the model of the Patent Office Library in London, although the foundation of these at the public expense was objected to by Professor Louis.

A resolution was passed expressing the opinion that "the establishment of technical libraries throughout the country is of national importance."

Professor H. E. Armstrong read the next paper, entitled "The Development and Control of Industry by Public Influences," the theme of which was that "charity begins at home," and that the Society needs to wake up and intervene actively in the promotion and protection of chemical industry. This is to be done by organising the forces and using them constructively forthwith. The discussion of the paper was left over until the afternoon sitting.

After luncheon, Dr. G. T. Beilby, F.R.S., read a paper on "Chemical Engineering," in which he advanced the view that the phenomenal development of chemical industry in Germany has resulted much more from the large command of chemists and engineers of sound professional training and ability than from the possession also of an even larger supply of research chemists of mediocre ability.

This paper and that of Professor Armstrong were discussed together, although the latter paper was the one to which the speakers mainly referred. Sir William Ramsay explained the steps taken by the Royal Society to form the Council into a War Committee. Several of

those who joined in the discussion defended British individualism and British chemical-trade. Professor Armstrong, in reply, said his first experience in the Law Courts as a witness in the salicylic-acid case taught him the advantage of pursuing a subject until there can be no doubt whatever about it.

In the evening the members attended at the Chemical Laboratories to witness a series of demonstrations by Professor H. Dixon, Sir Ernest Rutherford, and Professor W. J. Pope. The reception, by the Vice-Chancellor (Professor F. E. Weiss) and Professor Dixon, took place in the Schunk Library, and on the conclusion of the demonstrations refreshments were served in one of the laboratories.

### FRIDAY'S PROCEEDINGS.

The only paper read on Friday was one by Mr. W. F. Reid on "Economic Utilisation of Coal and the Production of Cheap Power." It was noticeable for the numerous suggestions which it contained and also for the pronouncement that the agitation to make cotton contraband of war is misplaced—there being no cotton used in the manufacture of high-explosive shells. A good discussion followed, in the course of which Professor Bone advocated a survey of the various kinds of coal produced in this country, and Professor Louis called attention to the waste in coal-mines of enormous quantities of small coal. Dr. Carpenter saw no objection to the imposition of an export-duty, so long as it is constant. Mr. Tyrrer referred to the uses of alcohol as a motive-power. Mr. Reid, in his reply, explained the sources of Montana wax, which had been mentioned in the course of the paper.

The meeting ended with a vote of thanks to the readers of the papers, and to the President for presiding at the meetings. Mr. Tyrrer, who proposed the vote of thanks to the President, referred to the novelty of the proceedings and the increasing interest taken in the papers.

### VISIT TO TRAFFORD PARK.

A large party of members left the Grand Hotel in motors on Friday afternoon, and, under the guidance of one of the staff of the Trafford Park Estate, soon arrived at Trafford Park. The first halt was made at the cotton-safes, where thousands of bales of cotton are stored in buildings built of brick and reinforced concrete. Every up-to-date appliance—automatic sprinklers, steel doors, etc.—is employed to guard against destruction by fire. The party



**Photo]** [Cleworth.  
GROUP TAKEN AT TRAFFORD HALL.  
Sir Walter and Lady Royce are in the centre of the front row.

were next conducted over the way to see the Ford Motor-works, and, dividing up into four or five small parties, were conducted through the greatest hustling motor-works in this country. Motor-cars, finished and ready for use, were being produced at the rate of ten per hour. Next were visited the celebrated Westinghouse Works, and then Redpath, Brown & Co.'s iron and steel works, where the many processes of cutting and drilling of steel and the welding together of huge iron girders were shown. The

party then went to Trafford Hall, where they were entertained to tea. Sir Walter Royce welcomed them as deputy for the Chairman of the Trafford Park Estate. The President, in reply, asked Sir Walter Royce to convey to the directors of the Trafford Park Estate the best thanks of the members for the hospitality extended to them that afternoon. The motors then conveyed the party from Trafford Hall to Barton Bridge, whence a very enjoyable trip was made by tug along the Ship Canal to Pomona Dock. Mr. Arthur Joynson, Assistant Traffic Superintendent of the Manchester Ship Canal, acted as guide. At Pomona Dock the motors were waiting the arrival of the party, who were quickly conveyed back to headquarters.

In the evening a smoking-concert was held in the Grand Hotel, a large number of members being present. Mr. Thomas Tyrer, at the conclusion, in a brief speech dealt with the various aspects of the annual meeting held in Manchester, then brought to a close, and said it had been one of the most successful he remembered. Although the Local Committee had launched out on an entirely new basis, and done away with so much of the picnic element, the really serious work that they had done was a creditable result of a brave undertaking. He moved a very hearty vote of thanks to the Local Committee. The President seconded, saying what a great pleasure it had been to him to preside at such a meeting, which had undoubtedly been a huge success from beginning to end. Mr. Hübner and Mr. Vlies briefly replied.

## Trade Notes.

**TABLETS AND PILLS.**—H. & T. Kirby & Co., Ltd., Newman House, Belton Road, Willesden Green, London, N.W., are prepared to quote close prices for tablets and pills. The company are War Office contractors.

**METAL-SPRAYS.**—D. Harper & Co., Ltd., Holloway Road, London, N., call attention to the "Sunrise" pocket sprayer and vaporiser. It is an all-metal spray, and its special features are referred to in the advertisement.

"JOHN BULL" sticky fly-catcher sold by Francis Newbery & Sons, Ltd., 27 and 28 Charterhouse Square, London, E.C., is wanted in connection with the war on flies. The prices are given in Messrs. Newbery's advertisement.

**MALT EXTRACT.**—Davies, Sons & Co., manufacturing chemists, The Bridge Street, Derby, give in this issue the new scale of prices for extract of malt and extract of malt with cod-liver oil. These are packed in jars or tins.

"QUICK-MARCH" FOOT-POWDER is the speciality advertised this week by The Standard Tablet and Pill Co., Ltd., Hove. An offer of illustrated circulars is made which should be considered *instanter* in connection with such a popular line.

**GLUTEN BREAD.**—Brusson Jeune's gluten bread has acquired a reputation as one of the most palatable of its kind. The sole makers are Etablissements Brusson Jeune, Villefranche (Haute-Garonne), France, whose advertisement appears in this issue.

**SHIRLEY BROS., LTD.**, Whitecross Works, Rockingham Street, London, S.E., have received the certificate of merit from the Institute of Hygiene for their White Cross Baby-powder and White Cross Carbolic Tooth-powder. Both these lines are confined to chemists. Shirley Bros. have had the certificate reproduced in the form of a showcard, copies of which are available for chemists on application to the above address.

**"PERFUMERY AND ESSENTIAL OIL RECORD."**—An interesting observation is made in the current issue of this journal that the ammoniated tincture of valerian of the British Pharmacopœia, when prepared from comparatively fresh European root, makes an almost bright dilution with water. When prepared from a comparatively old root, where certain chemical changes have taken place in the constitution of the oil, the tincture produces a somewhat turbid mixture, while a tincture prepared from the Japanese root gives a very turbid mixture. It should be noted that the Japanese valerian-root, *Valeriana angustifolia*, is not official in the British Pharmacopœia. In the same issue are printed an appreciation of Mr. E. M. Holmes as Hanbury Medallist, and a sketch of the career of Mr. John D. Marshall, managing director of John Bell & Croyden, Ltd., besides other interesting matter.

**CURACAO ALOES.**—The exports of aloes from Curaçao during 1913 (the latest figures available) were valued at \$63,898, against \$65,358 in 1912.

**DERBYSHIRE INSURANCE COMMITTEE** has arranged to have a question asked in the House of Commons as to why the Commissioners keep it short of funds.

## Personalities.

Authenticated notes are inserted without charge if not in the nature of advertisement, and subject to Editorial approval.

MISS L. HUNTER has been appointed dispenser at the Bartholomew Close Dispensary of the City of London Union.

MR. C. A. CRITCHLEY, Ph.C., and Mr. William Woolley, J.P., manufacturing chemist, Blackburn, were elected members of the Lancashire Automobile Club last week.

MR. A. JERROLD-NATHAN, C.C., Chairman of Barclay & Sons, Ltd., Farringdon Street, E.C., has been elected Deputy-Chairman of the London Court of Arbitration.

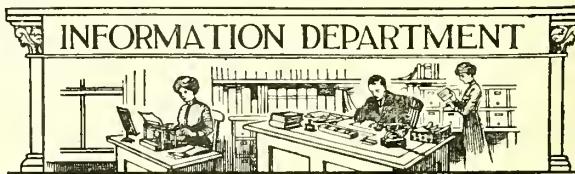
MR. H. WIPPEL GADD, F.C.S., Barrister-at-Law, Exeter, contributes to the July issue of the "Journal" of the Society of Comparative Legislation an article on British and Foreign Pharmacopœias.

MR. W. E. HODSON, Hon. Secretary of the Pharmaceutical Society of the Transvaal, who was on active service in German South-West Africa, returned to business in Johannesburg last month. Mr. Hodson was one of the first men to volunteer when it was decided to send a force to German South-West Africa and was ten months in the field, first as sergeant and latterly promoted to staff sergeant in the S.A.M.C. While he was on active service Mr. Hodson sent us an account of his experiences, which was published in the *C. & D.*, December 26, 1914, p. 42. It is hoped in the Transvaal that he will now resume his work for the Society as Honorary Secretary and Treasurer.



MR. W. E. HODSON.

W. BRO. GEORGE WHITFIELD, Ph.C., P.M. of the Denison Lodge (Scarborough), Vice-President of the British Pharmaceutical Conference, was invested P.G.A.D.C. by the Most Noble the Marquis of Zetland, Provincial Grand Master, at the annual meeting of the East Riding Provincial Grand Lodge of Freemasons held at Driffield on July 21. Among other Scarborough Masons present were W. Bro. T. W. Longdin, P.P.G.St.B., chemist and druggist, and W. Bro. E. Parker, W.M. of the Denison Lodge of Freemasons, Scarborough, chemist and druggist.



## INFORMATION DEPARTMENT

Postal Address:  
C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.  
Telegraphic Address: "CHEMUS, CANNON, LONDON" (two words).  
Telephone Number: 3617 CENTRAL (three lines).

## INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated. Please address us as above:

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| 166/73. Dr. Griffith's medicated soap.                         | 172/28. "Simpson" cleaning-pad.  |
| 166/44. "Menthodyne."  | 173/39. "Cresonine."   |
| 176/67. Syth's scouring drops.                                 | 173/390. "Nervilina."  |
| 170/55. Electro-plated, nickel-silver soothers, actual makers. | 173/391. Thompson's C.L. oil emul. with pancreaticus.                    |
| 170/16. Vanderbilt's consumption-cure.                         | 173/39. Mawson's assorted scented toilet-soaps.                          |
| 173/57. Keen's "Chemical Salt" and "Silicated Cement."         | 173/31. L. Panafien & Panly (manufacturers of cheap powders), addresses. |
| 172/38. New York Surgical Truss Co. (London agents).           | 175/46. "Silko" toilet-paper.  |

See also "War Wants Exchange" in the Coloured Supplement.

## Observations and Reflections.

By Krayser II.

### The Organisation of Chemical Industry

will not be attained by talking about it. If we would only do things instead of saying so much about them, there would be a better prospect of our regaining our ascendancy in the manufacture of chemicals. One of the first things we must do is for the employer, company, or syndicate to stop the expensive habit of underpaying their scientific employés. In other words, it must be made worth his while for a young man to spend a few years at a school of technology and to equip himself thoroughly in science.

### Major Peck,

in his Presidential Address to the British Pharmaceutical Conference, raised the question of commissioned rank for pharmacists in the R.A.M.C. to a higher level than that on which it is usually discussed, and by doing so showed its real importance. He placed it, as it should be placed, on the ground of service, not of status, or, rather, on status as necessary to the highest service. To a truly patriotic mind it matters nothing at all whether he serves as sergeant or as captain, if he can serve equally well as either, but in a service in which authority depends on rank it is manifest that he cannot; and in this particular service the duties are so arduous and the responsibilities so great that we need all the advantages we can secure for their proper discharge. Major Peck's "dream" of an Army Pharmaceutical Corps is, I fear, for the present nothing more than a dream, but its realisation would be hastened by the grant of commissions to pharmacists, which would moreover react upon the status, and therefore upon the serviceableness of pharmacy at home. There are some departments, at least, of the Civil Service in which young men of the higher division are not allowed to enlist unless they will accept commissions; this is not in the interest of the men themselves, but of the service to which they belong, and what applies to them applies also to us. It is surely not the case that our present readiness to serve in any capacity will be construed to our future prejudice.

### As a Humble Worker

on a trade journal I am interested in what Mr. George Warrington has been saying on the need of a reform in our business journalism. Mr. Warrington complains not only that we have not enough business journals, but that those we have are often sadly lacking, as compared with those of foreign countries, in scope and method. His criticisms are somewhat vague, and many of them are aimed rather at journalism in general than at our technical Press, and it would almost seem as if he meant tacitly to except the *C. & D.* from his strictures. Certainly the features he mentions as so often wanting are just those to which you give more prominence than any other trade journal I happen to know—the range of subjects "supplementing the technical knowledge": the cultivation of "the new spirit in salesmanship"; the wealth and excellence of advertisement; the insistence on the necessity of effective window-dressing, and of being up to date in method and organisation. It will be seen that the theme of Mr. Warrington's papers is the need of a more strenuous application to business than we have hitherto thought necessary. I am afraid his outlook offers no encouragement to the shorter-hours movement. Even when the shop is shut (he says) business must not

be forgotten; we must spend our leisure hours in preparing to handle our work more efficiently. It is not a cheerful prospect, and almost reconciles one not born in America to growing old.

### The Award of the Hanbury Medal

to Mr. E. M. Holmes is a fitting recognition of a remarkably useful career. Mr. Holmes has a world-wide reputation as an authority on vegetable *materia medica*, and with all his knowledge he is one of the most modest of men. His entire absence of "side" and his readiness to place his information at the disposal of his brother-pharmacists have made him one of the most popular, as he has always been one of the most accessible, of the officials at Bloomsbury Square, while his transparent honesty and unfailing kindness have earned him not only the respect but the affection of many who came in contact with him.

### The Serpent as the Symbol of Healing

has a self-contradictory look, and has puzzled many inquirers. The late Moncure Conway, in his "Demonology and Devil-Lore," discussed it at some length, without coming to a very definite conclusion. He did not think it a primitive idea, because in the earliest times the serpent seems to have been regarded with simple abhorrence, and he only found it the object of homage and veneration in comparatively late mythologies. Its long life, its susceptibility to music, its "subtlety," the fact that the cure of snake-bites would be one of the most striking proofs of his skill, and would probably be attributed to his intimacy with its habits, may all have contributed to the result that the serpent did become, almost universally, the sign of the physician. Dr. Raymond Crawford, in his recent work, "Plague and Pestilence in Literature," ascribes it to the fact that in primitive magic like cures like, and the natural result of the serpent being the symbol of disease was therefore that it became the symbol of healing also.

### The Oxford Dictionary

is rapidly approaching completion, only about a tithe of the whole now remaining to be published. The latest instalment (Trink—Turn-down) contains but few words of pharmaceutical importance excepting those in *tri-*, and some other modern compounds of Greek or Latin elements of little philological interest. The sense-development of *triturare* is curious; originally it meant to thresh, as corn is threshed. *Triticin* is a name first given to the gluten of wheat, and afterwards to potato-starch, but it is now obsolete in both of these senses. *Triticum*, often used as an English word, is not included, nor is there under *Trioxys* any mention of several substances with which modern pharmacists are more or less familiar. *Troches* must not be confounded with *troches* (in verse), but the two words appear to be connected in their origin, both of them being traceable, by different routes, to the Greek *trochos*, which, according to its accentuation, meant either a wheel, or a running, or course. *Tron*, familiar in Scottish place-names, meant originally a weighing-machine, and then a market-place; the "received opinion," says Sir James Murray cautiously, is that *Troy weight* refers to Troyes in France. He does not suggest any other possible derivation. *Truss* has apparently some remote connection with *trousers*, but it is not proved. *Tubocurine* and *tumenol* have escaped the editor's notice. *Tunhoof* is an old name for alehoof, or ground-ivy, which was so called, says Gerard (not quoted here), because it was "tunned up in ale." This was before hops came into general use. The meaning of *hoof*, in this and other plant-names, is not known. *Tundish* is an old name (with which I was once familiar) for a funnel; in Lincolnshire *tunnel* is the more usual form. *Turmeric* is of obscure origin; *Littre* is referred to as deriving it from *terra merita*, but Gerard had said, long before his day, that turmeric "is called *terra merita* by most writers and in shops." *Turbith* will be treated under *Turpeth*; the former, however, appears to have been the more familiar English form of the name.



## A NOTE OF WARNING.

In view of the congested state of the Railways, the Trade generally, and especially the Wholesale Trade, are advised to maintain larger "SANITAS" stocks, and to order as far in advance as possible, so as to avoid the delay and inconvenience which will otherwise be incurred.

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## Editorial Articles.

### French Export Trade.

A COMMITTEE of the Syndicat Général de la Droguerie Française has issued a report on the export trade of France which is interesting also to the drug-trade of this country. The formidable character of the attack on German export trade is fully recognised, and the share available for France will be subject to competition from the British nation, the Americans, and the Italians, which nations are all desirous of dividing the trade of the common enemy of civilisation. It is considered, however, that the victory which is now assured to the Allies' arms will have far-reaching effects in that it will bring back confidence and enable the present spirit of self-sacrifice of all parties for the national benefit to be maintained. The first problem is to re-establish markets for raw materials and to divert to French ports the supplies of drugs which formerly went to Hamburg and Bremen. The French ports of Havre and Marseilles will then resume the prosperity which was theirs forty years ago, and French and foreign buyers will have the same facilities for obtaining raw drugs there as have been afforded by German ports. In regard to improving the export trade in drugs and chemicals the reforms needed involve the help of the Government and initiative by business houses. The Government will need to take steps to re-establish regular sea-service between France and the Pacific coasts, the Far East, the ports of the Levant, and Russia. Overland transport requires co-ordinating with water transport so as to reduce the expenses of carriage, and there should be created at least two French "free ports," one in the North and the other in the Mediterranean. The Consular service needs reforming and directing from a consolidated Ministry, instead of, as at present, being under the administration of various departments, and it is suggested that more commercial attachés should be created at the important Embassies and Consulates. The reforms which could be brought about by private enterprise include exhibitions of French products, the creation of export banks, and the definite exclusion of German subjects from commercial and industrial concerns in France. Commercial missions should be appointed to study trade conditions in foreign countries on the lines of the Commission of Commerce which is at present examining the question of the future economic policy of France. Merchants must not be afraid of discarding old customs and benefiting by the results of experience. The present loyal collaboration of all political parties should be continued so as to prepare for the era of prosperity opened up by the magnificent work for freedom brought about by the heroism of the Allied armies.

### Fats and Glycerin for Germany.

DURING the hearing in the Prize Court, on July 20, of the claims by the Crown for the condemnation of four Scandinavian vessels and their cargoes, on the ground that the cargoes were destined for Germany, the

## BRITISH ABSOLUTE ALCOHOL.

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The Stretton Hills Mineral Water Co.  
Church Stretton, Salop.

Solicitor-General stated that "it had been discovered recently that glycerin could be made from lard, and he was prepared to argue that the enormous quantities of lard sent in the vessels from the United States were intended not for food but for 'warlike purposes.'" It transpired that the four vessels contained 9,250,000 lb. of lard, this being within a few tons of the total annual imports of lard by Denmark, Norway, and Sweden together. It was alleged that the four cargoes were destined for Germany *via* Copenhagen. The Solicitor-General's supposition that the preparation of glycerin from lard is a recent discovery may be passed as one of those errors that any non-technical man may fall into, but we wonder if those who instructed him were fully aware of the fact that animal and vegetable fats and oils, as the source of glycerin, are as essential as cotton to German makers of munitions? We have since last October been reporting facts and incidents which show how short the supplies of fats have been in Germany, and this week we learn that contracts there for the purchase of 1915 crops of oil-seeds are invalid, also that the order issued in regard to the restriction of the use of glycerin in medicine and pharmacy was followed at the beginning of this month with a decision to commandeer the stocks of glycerin in South Germany. When writing about this matter in our issue of January 30, we said:

"Let our readers turn to p. 58 of our issue of January 23, where, among four columns of produce related to the chemical and drug trades, we find thousands of packages of the raw materials from which glycerin is made. One of these items is 16,374 packages of various kinds of oils (unnamed), besides coconut oil, cod-liver oil, cotton-seed oil, fish oil, nut oil, seed oil, olive oil, palm oil, rapeseed oil, soya-bean oil, sperm oil, wood oil, and oil-seeds. These represent a week's imports, and are not exceptional; they are but one class of many kinds of raw produce essential for the industries of all the belligerents, and Germany not less than this country. They represent the raw material for certain high explosives, and at the end of six months of the war we find that we are getting all that we want, and Germany is hard up. What is true of the drug-trade is true of others. We mention these facts as proving that the British Navy has done what it was designed to do—namely, to protect the overseas commerce of this island Kingdom."

By the end of March an entirely unexpected source of relief had come to Germany—to wit, the cod-fishing in Norway. Referring to this in our issue of March 27, we said:

"We have from time to time reported upon the measures taken by the German Government to conserve supplies of glycerin, at the present day one of the most important staples in the production of explosives. There appears to be a real shortage of it in Germany consequent upon diminished imports of fats and oils. The drug-trade in this country has had a recent unwelcome and expensive reminder of this through the advance in the price of Norwegian cod-liver oil, which has doubled its value in a month. Baulked of its supplies of more suitable vegetable and animal fats, the German Government, in a moment of inspiration, became a buyer of cod-liver oil in Norway, but why it waited until the Lofoten fisheries were in full swing it is difficult to understand. It surely cannot be that the enemy is so enamoured of the submarine that she is making another, the cod, live again to fight the hateful English! Anyway, it is to be done in the shape of nitroglycerin, and the stearin will help to make sausages."

Cod-liver oil was from 180s. to 190s. per barrel then, and it is double the price to-day. News comes from America this week that the Germans are using cod-liver oil as a lubricant in place of heavy petroleum, which has also been surmised in London. The demand for the oil in Germany has slackened off during the past three months; indeed, we reported last week that there are large unsaleable stocks in Hamburg. It is also stated that Russia is buying cod-liver oil largely for the use of its army as a food and for the prevention of trench-

sores or frostbite. In the meantime a market for fatty acids has been opened in Germany, owing to the fact that soap-makers began last October to treat fats and oils by splitting up into glycerin and fatty acids, probably by Price's process with superheated steam, patented in 1854. Surplus fatty acids are now regularly offered on the Hamburg oil-market, and their acids are alone used in making soap. All vegetable and animal oils may be hydrolysed by the same process, and it is not surprising that while Germany can get millions of pounds of lard she will reserve cod-liver oil, and other oils that are dearer than lard, for ordinary or other uses.

#### The P.A.T.A. Subscriptions.

In our article on "Price-protection," *C. & D.*, July 17, p. 48, we inadvertently stated that the subscription by wholesale members of the Proprietary Articles Trade Association is a guinea a year, whereas it is the same as that of the members of the manufacturers' section—namely, five guineas per annum.

#### Dutiable Medicine Matters.

In our issue of July 3, p. 40, we reported a case in which a vendor was fined under the Medicine-stamp Acts for selling cards of pills in boxes that did not bear revenue stamps. The articles sold were head and stomach pills and backache and kidney pills. The result of the report was that we were flooded with inquiries as to whether or not the Revenue authorities now regard such names as involving liability to duty. We explained provisionally that we expected that the ground of liability was not disclosed in the report of the case that reached us, and this is confirmed by the Secretary to the Board of Customs and Excise, who informs us that "the pills had been recommended as beneficial for the relief of certain ailments on the cards to which the containing boxes were attached." We are also informed by the Secretary that the net receipt of medicine stamp-duty for the revenue year 1914-15 was 333,777l. 8s. 7d., while the medicine-vendors' licence-duty received in respect to 42,731 licences at 5s. each was 10,686l. 5s.

#### The Midday Rest.

THE war has reconciled business men, particularly those who are shopkeepers, to many changes, some of them changes which have been opposed for a long time as impossible or impracticable. The latest of these is the proposal, now carried into practice, to close shops during the midday meal-hour. It has been recommended by a Government Committee which inquired into the conditions of the distributing trades in Scotland, and this was one of the suggestions made to meet the inconveniences due to shortage of male shop-assistants. We have been reporting week by week that shopkeepers in English towns—chemists among them—are adopting this expedient, and we expect that it will ere long become general throughout the country. We see no valid reason why chemists should not take advantage of it. The objections, if any, will be in large cities, where the midday meal is a movable feast; hence it may not be easy to say exactly which hour is least inconvenient to one's customers. Co-operation of all shopkeepers in the locality is the first step towards selecting an hour most agreeable to them and their customers, and chemists should not stand out.

#### Divi-divi.

THIS dyestuff, which occasionally appeared in the drug-catalogues of Mincing Lane brokers for sale by auction, has now come into more prominence as a result

of the scarcity of dyes and tanning-materials. Already this year several hundred tons has been received in London from Curaçao, Madras, Cocanada, and New York, such imports indicating a revival of interest, and in view of this resuscitation the Board of Trade Committee for Chemicals and Dyestuffs has circulated the following information :

"Divi-divi is a very useful dye extracted from the seed-pod of a small tree which grows wild in almost inexhaustible quantities over the arid regions of the Peninsula of Goajira. The product is collected by the native Indians, part being taken to Rio Hacha and part to Maracaibo, in Venezuela, whence it has hitherto been taken in sailing-ships to Curaçao and thence to Hamburg, which is the distributing centre for the rest of Europe. The bulk is disposed of in Russia. Divi-divi is usually shipped loose, but it is not difficult to reduce the bulk by compressing it into bales; in this form the freight is reduced by about one-half, and the product also fetches a higher price. In regard to the volume of business to be done, the following figures will be of interest: Official data from the Custom House at Rio Hacha give the export for the last five years as 2,075 tons in 1909, 3,895 tons in 1910, 5,997 tons in 1911, 1,246 tons in 1912, and 2,078 tons in 1913. The price varies between 8*l.* and 10*l.* per ton, and the freight between 1*l.* 18*s.* and 2*l.* 2*s.* In addition to shipments from Rio Hacha, a very considerable amount finds its way to Curaçao direct from the Goajira coast-line by coasting steamers, and shipments are made from Maracaibo about equal in volume to those from Rio Hacha."

A couple of decades ago a very large trade was done in divi-divi, when all the imports (principally from Venezuela) were shipped to the United Kingdom; but subsequently the trade was diverted to Germany, owing to the greater facilities offered by German commission houses, mainly in the direction of financial accommodation and cheap warehousing. The trade in divi-divi has again fallen into our hands, but whether we shall make an effort to retain it after the war is another story. Nowadays many City merchants work for a profit, preferring to leave the "one-per-cent." business to the German commission house.

## Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

**Preparation of Cherry-laurel Water.**—M. Bridel and N. Delabrière ("Jour. Pharm. Chim.", 1915, 11, p. 110) have shown, as a result of comparative experiments, that, contrary to the statements of Saint-Sernin and Navarre ("Jour. Pharm. Chim.", 1911, 3, p. 15, and 1912, 6, p. 511), it is necessary to crush or otherwise disintegrate the leaves before distillation in order to avoid loss of hydrocyanic acid. They give the following table:

|                                  | HCN<br>parts per 1,000 |       |
|----------------------------------|------------------------|-------|
| Entire leaves without maceration | 0.918                  | 0.817 |
| " with maceration                | 0.931                  | 0.999 |
| Cut leaves                       | 1.201                  | 1.188 |
| Disintegrated leaves             | 1.701                  | 1.552 |

**New Alpha-ray Effect.**—Mr. F. Harrison Glew ("Journal of the Röntgen Society," XI, 44) finds that when mica is ionised by  $\alpha$ -rays a local increase in volume is produced, resulting in curvature, if the mica is thin; the convex surface is the one nearest the region of maximum ionisation; if the mica is too thick to bend, a strain is produced. It is further found that these mechanical effects are cumulative and do not appear to be reversible—persisting through a great range of temperature. By refined methods, using a suitable piece of mica as one plate of an interferometer, it may be possible to register and permanently record a few  $\alpha$ -particles, perhaps a single one. Future work on this effect may explain the mechanism of ionisation in solids.

NEGOTIATIONS ABOUT THE EXPORT of a limited quantity of dyeing-materials and medicaments from Germany to Sweden, so says a Berlin wireless message, are pending.

## Methyl-alcohol Determination.

FEW subjects are of greater importance to pharmaceutical manufacturers than this of determining the presence of methyl alcohol in medicinal preparations, hence we have at various times called attention in these columns (especially *C. & D.*, September 6, 1890, p. 321, and February 15, 1902, p. 264) to new observations on the subject. To these we now add particulars of a research by Mr. W. A. R. Wilks carried out in the chemical section of the Wellcome Tropical Research Laboratories, Khartoum, on "The Determination of Methyl Alcohol in the Presence of Ethyl Alcohol." The standard process of Thorpe and Holmes, which is generally employed in the British drug-trade, was the basis of the inquiry, the process being carried out as follows:

"The sample is mixed with water in such proportion that 50 c.c. of the mixture shall contain not more than 1 gram of methyl alcohol, and, in the presence of ethyl alcohol, not more than 4 grams of the mixed alcohols; 50 c.c. of this mixture is introduced into a 300-c.c. flask, which can be closed by a ground-in stopper, and which is fitted with a funnel and side tube; 20 grams of potassium dichromate and 80 c.c. of dilute sulphuric acid (1.4) are added and the mixture allowed to remain eighteen hours. A further quantity of 10 grams of potassium dichromate and 50 c.c. of sulphuric acid mixed with an equal volume of water is now added, and the contents of the flask heated to the boiling-point for about ten minutes, the evolved carbon dioxide being swept out of the apparatus by a current of air and collected in soda lime. When ethyl alcohol is present a subtractive correction must be applied to the weight of carbon dioxide thus obtained in the proportion of 0.01 gram of carbon dioxide for each gram of ethyl alcohol present."

Following these directions, Mr. Wilks observed that a large amount of heat was evolved and a considerable quantity of aldehyde escaped into the sulphuric-acid bulb during the addition of the acid solution. To avoid this the flask was placed in melting ice, while the first quantity of oxidising-mixture was added in small quantities during half an hour. It was considered necessary, however, to determine whether, under these conditions, pure ethyl alcohol still gave the same subtractive correction as found by Thorpe and Holmes. It was ascertained that the correction was only 0.006 gram of carbon dioxide per gram of alcohol, compared with 0.01 gram given by Thorpe and Holmes. Further experiments demonstrated that on decreasing the quantity of sulphuric acid, the amount of carbon dioxide obtained from the ethyl alcohol is diminished still further, the average results showing that the subtractive correction, using 20 c.c. of concentrated sulphuric acid instead of the total of 67 c.c. used in Thorpe and Holmes' experiments, was reduced to 0.0031 gram of carbon dioxide per gram of ethyl alcohol. By using a weaker acid it was shown that the correction can be still further reduced. In these circumstances, however, it was found that the rate of oxidation had been so much reduced that when methyl alcohol is present it escapes complete oxidation to carbon dioxide, and owing to this a compromise had to be arrived at whereby the correction due to the ethyl alcohol is reduced as far as is consistent with the complete oxidation of the methyl alcohol. After a number of experiments, varying the order of mixing, the following process appeared to be the best compromise obtainable and was the one finally adopted:

"A solution of 30 grams of potassium dichromate in 150 c.c. of water is first run into the flask, which is well cooled with a freezing-mixture. When the contents are thoroughly cold (a large proportion of the potassium dichromate, of course, crystallises out) 50 c.c. of a water solution of methyl alcohol is added, and finally, in small quantities at a time, 20 c.c. of sulphuric acid in 20 c.c. of water, the latter mixture having been previously cooled in a mixture of ice and salt."

It was found that under these conditions methyl alcohol was completely oxidised, one experiment giving for example, 4.8 instead of 5 per cent. by volume. With ethyl alcohol alone, under the same conditions, the subtractive correction was found to be 0.0040 gram of carbon dioxide per gram of ethyl alcohol. Mixtures of the alcohols analysed in this way gave the following results:

| Per cent. $\text{CH}_3\text{OH}$<br>(by volume) | Found by<br>experiment |
|---|------------------------|
| 0.87  | ... 0.81               |
| 5.00  | ... 4.80               |

The research is fully described in the first number of the Chemical Research Bulletin of the Laboratories, published by the Sudan Government.

## B.P. Notes.

By "Abel Scholar."

### Dispensing-solutions.

To ensure uniformity of method, would it not be desirable that the British Pharmacopœia, or, as an experiment, the local Pharmacopœias, should give formulae for the preparation of the stock dispensing-solutions in common use in pharmacies and dispensaries?

### Basis of Valuation.

The B.P. still retains the idea that the determination of the basic radical alone or the acid radical alone is an indication of the genuineness of a salt, in spite of repeated warnings that this method is often fallacious. Illustrations of this are seen in the B.P. methods of testing sodium salicylate and syrup of iodide of iron. Why not proceed as in the case of borax? The B.P. tests for this ensure the presence of the proper proportions of base and acid, as well as water of hydration. Here is a huge field for research.

## Pulvis Rhei Compositus.

By G. D. Elsdon, B.Sc., A.I.C., and Herbert Hawley, M.Sc., F.I.C.\*

ACCORDING to the B.P. 1914, Gregory's powder consists of light magnesia 66 (the new Pharmacopœia orders the light variety, although either was allowed in the 1898), rhubarb 22, and ginger 12. This slightly differs from the 1898 formula (magnesia 6, rhubarb 2, ginger 1). The most likely adulterations in the commercial powder are substitution of magnesium carbonate for oxide (in fact, a formula for "improved" Gregory's powder, containing B.P. magnesium carbonate in place of oxide, is contained in the British Pharmaceutical Codex) and careless compounding. A powder left long, badly stored, or made from old materials will also contain a large percentage of carbon dioxide derived from the atmosphere, gas-fumes, etc.

*Determination of Moisture, Ash, and Magnesia.*—The moisture and ash may be determined on the same quantity (1 gram). The loss at 100° C. will not be entirely moisture, but the excess will be more or less compensated by the absorption of carbon dioxide; in any case, figures obtained under similar conditions are strictly comparable. Fifteen commercial samples examined lost between 2.1 and 5.0 per cent. Only two of these lost more than 4.0 per cent., which is suggested as a reasonable limit. Three samples of B.P. magnesium carbonate lost less than 0.5 per cent., ten samples of ginger an average of 10.5 per cent., and ten samples of rhubarb an average of 9.5 per cent. The calculated ash, using B.P. magnesium oxide and allowing the average figures—10.0 per cent. for rhubarb and 5.0 per cent. for ginger—is 67.5 per cent. Fifteen commercial samples gave figures varying from 57.1 to 72.5 per cent. The alkalinity of the ash (as MgO), determined by titrating with normal hydrochloric acid, using methyl orange, is usually about 4.5 per cent. less than the ash figures, the difference being due to calcium oxide and non-alkaline constituents of the ginger and rhubarb ash.

*Determination of Carbon Dioxide.*—Paul and Cowley's method ("P.J.", 61, 389) was tried, and gave erroneous results, a correction for solubility of the CO<sub>2</sub> being necessary—viz., about 3.0 c.c. at 60° F. and 760 mm. in place of 1 c.c. in 10 c.c. of the liquid as recommended by Paul and Cowley. The solubility of carbon dioxide was determined in acid solutions of various concentrations of MgO with the following results:

| Grams MgO in 10 c.c. N/5 HCl | C.c. CO <sub>2</sub> Dissolved at 65° F. |
|------------------------------|--|
| 0                            | 7.5                                      |
| 0.15                         | 6.3                                      |
| 0.25                         | 6.1                                      |
| 0.35                         | 5.6                                      |
| 0.5                          | 5.1                                      |

In carrying out the method, mix 0.5 gram of the sample with 3 c.c. of water, and wash into the cup of a nitrometer standing over mercury; wash out the mortar with two further quantities of 1 c.c. each of water, and allow the mixture to enter the nitrometer; follow with 5 c.c. of concentrated hydrochloric acid, shake, and read the volume of gas evolved. Working on 0.5 gram, the corrected number of c.c. of carbon dioxide obtained at 65° F. and 760 mm. multiplied by 0.364 gives the percentage of carbon dioxide in

the sample. The authors said that they had not met any samples which could be classed as genuine that contained more than 5 per cent. of carbon dioxide, in most cases the amount being less than 3 per cent.

*Determination of Rhubarb and Ginger.*—The combined amounts of ginger and rhubarb can be obtained roughly from a consideration of the ash and the amount of magnesium. A confirmation can be obtained as follows: Treat 1.2 gram of the sample with 60 c.c. of cold water for twelve hours, filter, and evaporate 50 c.c. (=1 gram of sample) to dryness, and dry to constant weight. This gives aqueous extract. Treat 1 gram of the sample with 70 c.c. of acetic acid (about semi-normal) in a conical flask overnight, filter through a Gooch crucible or a tared filter-paper, wash the residue once with water, and dry in a steam-oven. The weight of residue and that of the aqueous extract, after adding 10.0 per cent. of the total weight for the average moisture in ginger and rhubarb (this is very constant), give the amount of rhubarb and ginger in the sample. This depends on the fact that dilute acetic acid extracts nearly the same amount from rhubarb and ginger as does water, but dissolves, in addition, the magnesium oxide.

A very fair approximation of the relative amounts of rhubarb and ginger may be obtained by the following process: The alcoholic extract is obtained in the same way as the aqueous extract, using industrial methylated spirit 64° o.p. From the percentage extracts of the combined rhubarb and ginger contained therein are obtained. Taking 38 and 13 as the percentage aqueous extracts of rhubarb and ginger respectively, and 35 and 6 as the percentage alcoholic extracts respectively, and knowing the aqueous and alcoholic extracts of the mixture, it is possible to calculate the composition of the mixture from either of these figures. The latter, however, is much more accurate. The following example may make this clear:

A Gregory's powder had an aqueous extract of 11.6, while 20.1 per cent. was insoluble in semi-normal acetic acid. The total amount of rhubarb and ginger is therefore  $11.6 + 20.1 = 31.7$  per cent. The alcoholic

extract was 7.8 per cent. Calculated, therefore, on the alcoholic extract, the proportion of rhubarb and ginger was 62:38.

*Effect of Exposing Gregory's Powder to the Atmosphere.*—A quantity was spread out in a thin layer and placed in a well-ventilated, closed, first-floor, outside window-box in one of the busiest thoroughfares of a manufacturing city. Exposure commenced on July 22, 1914. The increased weights were:

|                                |     |     |     |                 |
|--------------------------------|-----|-----|-----|-----------------|
| Total given up to July 31      | ... | ... | ... | 2.22 per cent.  |
| Total given up to August 31    | ... | ... | ... | 6.25 per cent.  |
| Total given up to September 29 | ... | ... | ... | 6.25 per cent.  |
| Total given up to November 4   | ... | ... | ... | 12.23 per cent. |

### Analysis.

|                          | Before<br>Exposure | After<br>Exposure |
|--------------------------|--------------------|-------------------|
| Loss at 100° C.          | 3.8                | 7.2               |
| Ash                      | 67.3               | 61.6              |
| Alkalinity of ash as MgO | 62.7               | 57.8              |
| Aqueous extract          | 14.1               | 13.1              |
| Carbon dioxide           | 2.2                | 3.5               |

Quantities of B.P. magnesium oxide and B.P. magnesium carbonate were exposed in a similar manner, the oxide being ignited and the carbonate being dried at 100° C. at the commencement of the experiment. Commenced November 20, 1914:

|   | Mag. Ox. | Mag. Carb. |
|---|----------|------------|
| Total gain in weight to December 22, 1914 | 15.6     | 2.6        |
| Total gain in weight to January 23, 1915  | 18.1     | 3.0        |
| Total gain in weight to February 23, 1915 | 19.6     | 3.6        |

The final products were examined, with the following results:

|   | Exposed<br>Mag. Ox. | Exposed<br>Mag. Carb. |
|---|---------------------|-----------------------|
|   | Per cent.           | Per cent.             |
| a. Carbon dioxide                                 | 7.8                 | 32                    |
| b. Ash  | 86.0                | 44.0                  |
| c. Alkalinity as MgO                              | 40.6                | 20.3                  |
| d. Loss at 100° C.                                | 1.5                 | 2.5                   |
| e. Portion due to increase of exposure            | 17.3                | 3.5                   |
| f. Portion due to dust and fixed H <sub>2</sub> O | 8.0 (E-A-O)         | 1.0 (E-D)             |

The authors consider that Gregory's powder should not contain more than about 3 per cent. of carbon dioxide, and that quantities of more than 5 per cent. certainly constitute adulteration.

"SYRUP OF AURANGE" on a slip-label is an exceptional way of putting it. It was not written by the superintendent of a limited company, but by someone under him—where, the label sayeth not.

\* Abstract of a paper communicated to the British Pharmaceutical Conference at the meeting in London on July 14. The authors are engaged in work connected with the Sale of Food and Drugs Acts and other municipal obligations.

## Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

### COMMISSIONS FOR CHEMICAL SCHOLARS.

In the House of Commons on Monday, July 19, Mr. Tennant stated, in reply to Sir John Jardine, that it is not desirable to state publicly what is being done in the matter of employing chemists in the Chemical Company attached to the Royal Engineers.

### UNREGISTERED DENTAL SURGEONS.

Mr. Hogge has given notice to ask the Under Secretary for War next Monday whether the decision of the War Office is final with regard to the employment of unregistered dental surgeons; whether this is due to the objection of the British Dentists' Organisation; and whether, seeing that trades unionists have waived their rules for the period of the war, the War Office will use its influence to induce this professional union to waive its rules too. [Apparently the British Dental Association or the General Medical Council is meant by "Organisation."]

### PATHOLOGICAL RESEARCH.

In the debate on the Civil Service Estimates on July 15, a sum of 25,000/- was asked for for pathological research, but, after considerable opposition, the vote was withdrawn. Mr. Montagu (Financial Secretary to the Treasury) said he could understand the objection of a thorough-going enemy of research who describes himself as an anti-vivisectionist or an anti-pathologist, but he could not understand the objection of hon. members who approve of a scheme of pathological research being made and are delaying the starting of this very valuable reform.

### ENTERIC INOCULATION IN THE ARMY: A REBUKE.

In the House of Commons on Monday, Mr. Tennant, in reply to an inquiry by Mr. H. C. Chancellor, M.P., said he thought it would be well if his hon. friend refrained from suggesting, as he did in the last part of his question, that the medical authorities are guilty of manipulating the statistics in an untruthful, unscientific, and *ex parte* manner. The reduction in the number of cases as stated for May 4 and as stated for May 22 is due to the original—*i.e.*, the clinical—diagnosis not having been confirmed in some cases by subsequent bacteriological examination, which disclosed the fact that these cases, although originally returned as enteric fever, were not that disease at all. The House and the public generally would hear with satisfaction that inoculation is abundantly proving its efficacy in preventing enteric fever and in lowering the incidence of death among those who unfortunately contract the disease.

### EXPORTS OF MORPHIA AND OPIUM.

Mr. Runciman, on behalf of the Board of Trade, has supplied Mr. Stewart with the following figures regarding exports from the United Kingdom:

#### (a) Exports of Morphia and Morphia salts.

| United Kingdom produce :-       | To all Destinations |         | To China only |
|---------------------------------|---------------------|---------|---------------|
|                                 | Oz.                 | Oz.     |               |
| January to June, 1913 ...       | ...                 | 211,890 | 320           |
| " " 1914 ...                    | ...                 | 271,102 | 2,320         |
| " " 1915 ...                    | ...                 | 175,030 | 57            |
| Foreign and Colonial produce :- |                     |         |               |
| January to June, 1913 ...       | ...                 | 666     | Nil           |
| " " 1914 ...                    | ...                 | 80      | Nil           |
| " " 1915 ...                    | ...                 | 6,480   | Nil           |

#### (b) Exports of Opium.

| United Kingdom produce :-       | To all Destinations |         | To China only |
|---------------------------------|---------------------|---------|---------------|
|                                 | Lb.                 | Lb.     |               |
| January to June, 1913 ...       | ...                 | 7,338   | Nil           |
| " " 1914 ...                    | ...                 | 8,267   | Nil           |
| " " 1915 ...                    | ...                 | 5,588   | 11            |
| Foreign and Colonial produce :- |                     |         |               |
| January to June, 1913 ...       | ...                 | 172,131 | Nil           |
| " " 1914 ...                    | ...                 | 129,320 | Nil           |
| " " 1915 ...                    | ...                 | 76,633  | Nil           |

Persons forwarding goods by parcel post to foreign countries or British possessions are required to fill in a Customs declaration specifying *inter alia* the nature and value of the goods. The importation of morphia and opium into China through the medium of the parcel post is prohibited.

Mr. Austen Chamberlain has informed Mr. Roberts that the following figures show the amount of opium and its preparations issued from Government Treasuries in Assam (or in districts where the supply is not derived entirely from Treasuries the amount sold by retail): 1911-12, 60,279 seers; 1912-13, 62,048 seers; and 1913-14, 63,582 seers.

### PHARMACISTS AND THE R.A.M.C.

Our Parliamentary correspondent is informed that, so far, no interview has taken place between the War Office and the Pharmaceutical Society in reference to the employment of qualified pharmacists as civilian dispensers in military hospitals, and, indeed, it is unlikely that any such interview will take place during the present week. Recently the question was brought to Mr. Tennant's notice in the House of Commons by Mr. Glyn-Jones, who asked whether the Department would permit the pharmacists so engaged to enlist for the purpose of performing the same duties, and receiving therefor the same emoluments, as they now receive from the War Office as civilians. Mr. Tennant, in expressing his desire to make use of the assistance of the Pharmaceutical Society, said that if the men in question are of military age and otherwise fit to enlist they could do so, but they would be required to come on the ordinary R.A.M.C. rates of pay.

## Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

### Reports from Local Centres.

With special reference to the supply of medicines and appliances. See also Association Affairs.

#### ENGLAND.

**Bath.**—The Panel Committee at a recent meeting discussed a letter from the Insurance Committee regarding the failure of practitioners to mark Sanatorium Benefit prescriptions properly, and noted the request of the chemists in regard to this. The Panel Committee agreed to the requisite transfer to the Drug Fund.

**Cambridgeshire.**—Mr. W. Spencer Turner, Ph.C., Willingham, has asked to have his name struck off the dispensing panel on September 30, and the request has been granted.

**Eastbourne.**—The Insurance Committee on July 16 agreed to the recommendation of the Sanatorium Benefit Sub-Committee to the effect that representations should be made to the Commissioners, pointing out the heavy cost of domiciliary treatment incurred by the Committee, and asking that the urgent necessity of increasing the funds of Insurance Committee be considered. In reply to a vote of thanks for his past services, the Chairman (Alderman Duke) expressed satisfaction at the smooth working of the Committee since the passing of the Act.

**Great Yarmouth.**—The checker's report presented to the Insurance Committee on July 14 states that among the prescriptions examined there were few expensive ones, and none of an excessive or extravagant nature.

**Hampshire.**—The Insurance Committee met on July 19. The Pharmaceutical Committee having written regarding the prescription forms used, the Sanatorium Benefit Sub-Committee reported that they had informed the Pharmaceutical Committee that they are about to introduce modified forms which, it is hoped, will meet with that Committee's approval. The Finance Sub-Committee reported that they had decided to pay the chemists' April and May accounts as checked, and recommended that authority be given for payment of June and July accounts as and when checked. It was reported that Dr. Cross and Dr. Pankridge, Petersfield, had given notice to discontinue dispensing for insured persons on their lists, and that notification of this had been sent to all insured persons affected. It was stated that between 9,000 and 10,000 persons in the area had joined the Forces, and notifications are arriving daily. In addition 2,500 persons have been suspended from benefits owing to arrears of contributions.

**London.**—The Insurance Committee met on July 22, when Mr. J. Howarth was re-elected Chairman and Mr. Kingsley Wood Vice-Chairman for the ensuing year. The General Purposes Sub-Committee intimated that, in view of the resolution of the Panel Committee not to contribute to the cost of the examination of prescriptions after December 31, 1915, they would report at a later date as to the future conduct of the work. The Medical Benefit Sub-Committee reported that during June the names of four persons had been added to the panel of persons supplying drugs and appliances, and that three names had been removed from the list. The same Sub-Committee recommended that chemists be paid in full their accounts for February 1915, and for July and August at the rate of 5d. per prescription on account. The Sub-Committee also reported consideration of a report by the Panel Committee regarding representations made by the Pharmaceutical Committee as to the prescribing

of a panel practitioner during May 1914. The practitioner had 902 persons on his list, gave 257 prescriptions, of which 165 cost over 1s., the total cost being 22*l.* 10*s.* 4*d.*, the average cost 2*l*., and the cost per person on the list 5.8*d.*, The Panel Committee considered the cost excessive, and the Sub-Committee recommended that the practitioner be surcharged 2*l.* 18*s.* 10*d.* The Drugs and Appliances Sub-Committee reported that during February 310,966 prescriptions, value 10,730*l.*, and average cost 8.3*d.*, were dispensed. The Finance Sub-Committee reported that they had passed the following payments to chemists: For 1914, 436*l.*; and for 1915, 6,797*l.* The Medical Service Sub-Committee reported consideration of seven complaints against panel practitioners, six of which were substantiated and one dismissed. The report of the General Purposes (Selection Section) Sub-Committee contained recommendations as to the constitution of Sub-Committees for the ensuing year. Mr. W. J. Uglow Woolcock is proposed for the Medical Benefit Sub-Committee.—A meeting of the new Pharmaceutical Committee was held on July 20 at Bank Chambers, High Holborn, when the following appointments were made for the ensuing year: *Chairman*, Mr. A. H. Jenkin; *Vice-Chairman*, Mr. A. R. Melhuish; *Secretary*, Mr. G. A. Tocher; representatives on the Drugs and Appliances Sub-Committee, Messrs. Keall and Jenkin; representatives on the Pharmaceutical Service Sub-Committee, Messrs. Keall, Hatfield, and Woolcock; members of Finance Sub-Committee, Messrs. Jenkin, Melhuish, Keall, Thompson, Skinner, and Murison. A letter was received from the Insurance Committee concerning the limitation of investigations under Regulation 40 by the Panel Committee. After discussion it was decided that the Pharmaceutical Committee should continue to submit quarterly representations for the year 1914-15 after a special selection of the most flagrant cases of extravagance, and to reply to the Insurance Committee in similar terms to those already communicated to the Panel Committee on the subject. A letter from the Panel Committee was next considered relating to ten stock mixtures which they suggest should be included in the Tariff. After some discussion, during which the position of chemists under the Sale of Food and Drugs Acts was considered, it was decided to form a Sub-Committee, consisting of Messrs. Jenkin, Melhuish, Keall, Skinner, Wilkinson, and Wing, for the purpose of consideration and investigation of the proposed selection of mixtures as to whether they could be stocked in bulk without deterioration. The Committee is to report to the next meeting if possible.

**Plymouth.**—In view of the fact that the election of the Plymouth Pharmaceutical Committee was not completed within the prescribed period, the Commissioners have extended the time and also the term of office of the present members of the Committee, to July 31, at which time the new Committee (*C. & D.*, July 17, p. 52) takes office.

**Sheffield.**—The first meeting of the new Pharmaceutical Committee was held on July 20, when Mr. H. Griffith Williams was elected Chairman, Mr. A. H. Culverhouse Vice-Chairman, and Mr. H. Antcliffe Secretary. The following Sub-Committees were appointed: Pharmaceutical Service Sub-Committee—Messrs. H. G. Williams, J. G. Jackson, and S. Furnival; Joint Services Sub-Committee—Messrs. H. G. Williams and S. Furnival; Emergency Sub-Committee—Messrs. J. G. Jackson, S. Furnival, H. G. Williams, and H. Antcliffe.

**Stockport.**—In 1914 the thirty dispensing contractors dispensed 160,104 prescriptions (value 4,391*l.*).

**West Bromwich.**—Chemists have been paid 335*l.* (90 per cent. of their accounts) for the second quarter of 1915, and Sanatorium Benefit accounts amounting to 22*l.* have so been paid. The count of the index register on July 1 indicated 25,480 insured persons. During the first six months of 1915 35,887 prescriptions were dispensed (43,661 in 1914). The Insurance Committee has sent to panel chemists circulars regarding the emergency settlement for 1914. The Pharmaceutical Committee will consider figures and details when available, and will advise chemists in the area.

#### SCOTLAND.

**Ayrshire.**—At a meeting of the Insurance Committee on July 17 the checker reported that in 1914 88,991 prescriptions, value 2,524*l.*, and average cost 6.8*d.*, were dispensed, making the numbers on the doctors' lists as 40,724, the cost per person was 1*s.* 2.8*d.* For 1915 the figures were 6,77*l.* per prescription and 1*s.* 1.1*d.* per insured person.

**Edinburgh.**—At a recent meeting of the Medical Benefit Sub-Committee a report was submitted from the Centralrecking Bureau on prescriptions dispensed in the area during April. The report was remitted to the Convener, Dr. Vitch, and Mr. R. L. Hendry to meet representatives of the Pharmaceutical Committee to discuss various matters arising from it, and the desirability of calling the attention

of the Panel Committee to cases of excessive prescribing appearing therein. In view of the fact that 10 per cent. deductions from the chemists' accounts for January to May are still in hand, the Sub-Committee agreed to recommend that the June accounts (690*l.*) be paid in full. A letter from the Insurance Commissioners was read intimating that they have taken steps to have the matter of the shortage of salicylic acid considered by the Government. The Clerk stated that he had issued a further communication to practitioners impressing on them the importance of exercising economy in prescribing this drug without detriment to the insured. A letter was read from the Secretary of the Pharmaceutical Committee submitting the following price-increases owing to the war:

|                           | Per cent. |                       | Per cent. |
|---------------------------|-----------|-----------------------|-----------|
| Acid, acetylsalicyl. ...  | 700       | Methyl salicylate ... | 233       |
| Acid, benzoic. ...        | 53        | Oil. morrhuae ...     | 90        |
| Acid, carbolic. ...       | 225       | Phenacetin ...        | 419       |
| Acid, salicylic. ...      | 700       | Phenazone ...         | 200       |
| Acid, tanic. ...          | 230       | Phenolphthalein ...   | 100       |
| Adeps lanæ, B.J.D. (out)  | 150       | Potass. brom. ...     | 126       |
| Adeps lanæ, Home (scarce) | 16        | Potass. cit. ...      | 21        |
| Ammon. benz. ...          | 16        | Potass. iodid. ...    | 6         |
| Atropin, sulph. ...       | 250       | Potass. permang. ...  | 100       |
| Bismuth. carb. ...        | 25        | Quininæ sulph. ...    | 10        |
| Bismuth. salicyl. ...     | 50        | Resorcin ...          | 120       |
| Bismuth. subnit. ...      | 53        | Salol ...             | 300       |
| Butyl chloral hydras ...  | 61        | Santonin ...          | 45        |
| Caffeine citrate ...      | 44        | Sodii benz. ...       | 33        |
| Chloral hydras ...        | 80        | Sodii brom. ...       | 40        |
| Cocain, hydrochlor. ...   | 233       | Strychnine ...        | 18        |
| Lithii carb. ...          | 100       | Sulphonal ...         | 69        |

It was stated that some of these articles are not now procurable, while most of the others are still further advanced, and in many cases are likely to go higher. The Panel Committee reported further on excessive prescribing. One doctor gave six orders for adrenalin, and other drugs were issued to one patient by the doctor at intervals of three days, the cost being 9*s.* 2*d.* The Panel Committee reported that the doctor's explanation was satisfactory. Another doctor was said to have given an excessive order for emergency dressings. The amount claimed was 15*s.* 4*d.*, of which 7*s.* 10*d.* was disallowed by the checker. It was stated that the quantity ordered represented the doctor's supply for about seventeen months. The Sub-Committee adhered to the decision that only 7*s.* 6*d.* be allowed in this case.

**Hamilton.**—After correspondence between the Insurance Commissioners and the Insurance and Panel Committees chemists have received the bonus for 1913. The 1913 Drug Fund amounted to 888*l.* and chemists' accounts to 808*l.* The Insurance Committee has now distributed, *pro rata*, 31*l.* as bonus and carried 49*l.* forward to 1914 as ordered by the Commissioners. Mr. W. Dickson, chemist and druggist, 78 Canzow Road, Hamilton, has been added to the dispensing panel.

## Regulation 40.

By Herbert Skinner, Ph.C.

THE pith of Regulation 40 lies not so much in the record of individuals as in the following end section:

"On request of the Pharmaceutical Committee the Panel Committee shall investigate, etc., or generally as to the orders given for drugs and appliances by practitioners on the panel."

Surely the time has arrived to make the general complaint that practitioners do not give orders consonant with the limitations of the Drug Fund. The failure of the Regulation is mainly due to the obsession of investigating the records of individuals; while these are of acute interest as helping to throw some light on an obscure question, the investigation leaves untouched the larger principle of 2*s.* per insured person being sufficient or insufficient for the purposes of the Drug Fund. That will-o'-the-wisp "surcharge" has completely misled the minds of doctors and pharmacists. Its legality is now before the Courts, and relief for the discounted pharmacists is suspended by the general doubt.

An inelastic Drug Fund was bound to fail. Had the sum been 6*s.* instead of 2*s.* the failure would have been postponed; but failure there would have been sooner or later unless some more efficient means than Regulation 40 had been devised. In the general discontent that has arisen we hear complaints from many pharmacists that Insurance dispensing does not pay, while others as freely affirm that it does. Both have an element of truth. Ten per cent. discount to one may be as poignant as 40 per cent. to another. In some recent examinations of accounts it was found that in a bundle of 215 with an average over 1*s.* 11*d.* had sixpenny dispensing-fees. On the other hand,

a bundle of 180 from a neighbouring pharmacy had only seven with sixpenny dispensing-fees. Clearly the incidence of discounting, if the same ratio was maintained, would be very unequal. Even in the matter of work it would seem there is ample justification for discordant opinions. Two bundles of 100 and 98 respectively from a residential district showed 94 mixtures in the one, while in the other were 54 mixtures and the rest stock pills, lozenges, tablets, etc. So much appears to depend upon the temperament of the prescriber.

Surcharging of the individual is the method of the wooden-headed official. For the sake of a few pounds antagonistic feeling is accentuated, while little practical good accrues. Until a more concrete definition arises of what is proper and sufficient medicine it is mere foolishness to set up any Committee to sit in judgment. Recently it has been my experience to wade through 3,439 prescriptions referred on account of cost and representing five doctors. The cost was 1571. 18s., and the amount available in the Drug Fund for that period on account of the patients was 637. 14s. One man with 3,322 on his panel had issued 1,116 prescriptions at an average of 12.17d., and was held to have been blameless. Another with 536 on his panel had issued during the same period 102 prescriptions at an average of 10.9d. His total cost to the Drug Fund was only 5s over the amount contributed on behalf of his patients; yet because he prescribed for three cases a proprietary galenical costing 1s. 8d. per prescription in which he believed and freely used for his private patients, he was recommended for surcharge. Could mockery go further?

The question of whether a panel consists of good lives or bad lives never seems to arise, yet the whole matter of high cost due to frequency turns on this point. An analysis of the figures for three districts is embodied in the following table. District A was a typical working-class, district B a medium-class residential, C was a suburban residential:

|   | Patients on Panels |       | Prescriptions Issued | Money Available | Money Expended | Prescriptions over 1s. | Proportion of Prescriptions Issued | Average Cost |
|---|--------------------|-------|----------------------|-----------------|----------------|------------------------|------------------------------------|--------------|
| A | 13,748             | 5,594 | 114 11 4             | 270 7 6         | 1,739          | 1 in 2.4               | d.                                 | 11.60        |
| B | 7,247              | 2,420 | 60 7 10              | 115 7 1         | 839            | 1 in 3.0               |                                    | 11.44        |
| C | 2,821              | 864   | 23 10 2              | 38 19 9         | 219            | 1 in 3.25              |                                    | 10.83        |

A has an average of 1 in 3.2 over 1s.; B has 1 in 2.9; and C has 1 in 3.9. Clearly if a 300-panel man with a fair amount of leisure over each case can do no better than 1 in 4 over a shilling, then the 3,000-panel man may readily be excused if in the stress he oversteps the mark no oftener than 1 in 3.

Regulation 40 was based upon an assumption that excessive treatment and prescribing might arise, and was presumably the best that official minds could devise. The machinery is complicated, consisting of a checking staff, a checking Sub-Committee, a Panel Committee, and a Pharmaceutical Committee; all save the actual checkers being unpaid. So infinitely various are the figures, so complicated the method of passing from one Committee to the other (and the information is only partial at the best), that it is like looking for a submarine in the Atlantic to catch a real live waster of the Drug Fund. The fact is the people are getting a treatment far superior to anything foreshadowed, and it cannot be done at 2s. without revolutionising the methods. Either the Government must limit the prescribing through the proper channels or provide more money and more efficient machinery to stop wastage. The Panel and Pharmaceutical Committees might be conjoint with two respective Sub-Committees to deal with purely medical or purely pharmaceutical matters. A quarterly analysis of cost, average, etc., should be made in respect to each doctor, showing all his outgoings so far as the Drug Fund is concerned. If he is over the average considered reasonable, a warning ought always to be issued; if the warning is neglected and no sufficient reason given to the full Committee, then automatic surcharge of his excess should ensue and no appeal be allowed. Finally, the pharmacist should be adequately protected with a more equitable Tariff and guaranteed 20s. in the pound on the agreed prices, paid in full within a prescribed time. Only by dealing with N.H.I. in a drastic manner is it going to be worth the pharmacist continuing. It seems to me the best way is to remain on the panel and concentrate on necessary reforms that we can agree upon in order to build up an efficient and remunerative system.

F.P.S.L. means Fellow of Physical Society of London, the Council having so decided recently.

## Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

### 42 Cannon Street, E.C., July 22, 6.30 p.m.

ALTHOUGH a fair number of price-changes are recorded, business generally has turned quiet, especially where exports are concerned, this being due to the inability to secure supplies and permission to ship. Among chemicals, bichromates have been advanced 1d. per lb., alum 10s. per ton, borax 1s. and boric acid 2s. per cwt. Acetic acid is dearer, as anticipated. Ammonia sulphate is firmer. Bromides are harder generally. Citric and tartaric acids continue firm; cream of tartar is more freely offered, and is easier. Japanese refined slab camphor is cheaper to arrive. Quinine is firm; menthol, American peppermint, and Japanese mint oils are more or less cheaper. Cocaine is a trifle easier in second-hands, vanillin and sulphonated dearer, and salicylates unchanged. Sudan acacia gums are strong and dearer; common liquorice-root is getting scarce and dear. Fenugreek-seed is higher.

| Higher                     | Firmer        | Easier                         | Lower      |
|----------------------------|---------------|--------------------------------|------------|
| Acetic acid                | Agar-agar     | Camphor (Jap. ref. slabs)      | Gambier    |
| Alum                       | Ammon.        | Cassia oil (e.i.f.)            | Menthol    |
| Bichromates                | sulphate      | Cocaine                        | Palm oil   |
| Borax                      | Bromides      | Copper                         | Turpentine |
| Boric acid                 | Cocoa-butter  | sulphate                       |            |
| Coca-leafs (Amst. auction) | Linseed oil   | Cream of                       |            |
| Fenugreek-seed             | Male-fern oil | tartar                         |            |
| Gum acacia (Sudan)         |               | Ipeeaquanha (Cartagena)        |            |
| Liquorice-root             |               | Mint oil (Jap.)                |            |
| Sulphonated                |               | Peppermint oil (Amer. forward) |            |
| Vanillin                   |               | Phenazone                      |            |
|                            |               | Podophyllum-root               |            |

### Special Notes to Buyers.

In regard to quotations for synthetic chemicals and other products obtained hitherto chiefly from Germany and other Continental countries now engaged in war, it should be noted that some of these are strictly nominal, and are not general, but are prices of limited supplies quoted by individual holders and second-hand dealers. Most offers are "without engagement," and subject to the articles being unsold. In many instances higher prices than those quoted in this Report, for various reasons, are being paid.

A circular, signed by Howards & Sons, Ltd., May & Baker, Ltd., T. Morson & Son, T. Tyrer & Co., Ltd., and Whiffen & Sons, Ltd., has been issued, intimating "that owing to the heavy advance in the cost of packages, labour, corks, labels, and items connected with the putting up of goods, we can no longer supply at our present prices and allow for empties in full on their return. A surcharge will therefore be made on the invoice price of packages—for the time being 10 per cent. on drums and 25 per cent. on other packages—which surcharge will not be credited when empties are returned."

### Cablegram.

NEW YORK, July 21.—Business in drugs is quiet. Opium is dull at \$7.00 per lb. for druggists' quality. Menthol is lower at \$2.55. Canada fir balsam has been reduced to \$5.40 per Amer. gal. Cartagena ipecauanha is cheaper at \$2.25, and Mexican sarsaparilla is easier at 13c. Belladonna-root is lower at 90c. per lb., and serpentary is easier at 38c.

## London Markets.

ACETANILIDE has advanced in the United States, but here the price is unchanged as per last week's quotation.

ACETIC ACID.—As anticipated last week, the market has advanced, and the value of 80-per-cent. commercial is 6*l.* to 6*2l.*; for glacial 82*l.* 10*s.* per ton has been paid, and other strengths in proportion.

AGAR-AGAR.—The spot price of No. 1 Kobe strip remains at 2*s.*, but little is to be had, and 2*s.* 3*d.* will shortly be the price; for August-September shipment 1*s.* 10*d.* c.i.f. is quoted. Russia has lately been a heavy buyer in Japan, it being said that 15,000 bales have been sold.

ALUM has been advanced 10*s.* per ton to 9*l.* 12*s.* 6*d.* per ton for lump and 10*l.* 2*s.* 6*d.* for ground, on rail at works.

AMERICAN DRUGS.—The following are current net quotations for barks, roots, leaves, etc.: *Barks*: Euonymus 1*s.* 9*d.* on spot, wild cherry 7*d.* net to arrive, witch-hazel 4*1/2d.* c.i.f. to arrive. *Herbs*: Lobelia 7*1/2d.*, and scutellaria 10*1/2d.* c.i.f. to arrive. *Leaves*: Damiana 7*d.*, and witch-hazel 4*1/2d.*, both c.i.f. to arrive. *Roots*: Jalap 8*d.* net on spot (8.8 per cent.), culvers 8*d.* on spot, serpentine 1*s.* 10*d.* on spot, stillingia 6*d.*, and unicorn (helonias) 2*s.* 3*d.* per lb., both c.i.f. to arrive.

AMMONIA SULPHATE is firmer, at from 14*l.* to 14*l.* 5*s.* per ton net, naked, at works, London, for 25-per-cent. ammonia; Hull, 24-per-cent., is 14*l.* to 15*l.*; Liverpool, 14*l.* 17*s.* 6*d.* (forward 15*l.* per ton); Leith, 15*l.*, July-December, 15*l.* 5*s.* per ton in bags f.o.b., less 3*1/2* per cent.

ANISE OIL (STAR) is quiet at 3*s.* 8*d.* per lb. spot for Red Ship and 3*s.* 2*1/2d.* c.i.f.

ANNATTO-SEED.—Fair bright East Indian are obtainable at 8*d.* and dull at 7*1/2d.* on the spot.

BALSAM (CANADA).—From a parcel just landing genuine is offered at 4*s.* per lb. net.

BICHROMATES.—The makers have advanced the prices of all bichromates by 1*d.* per lb., making potassium (67 to 68 per cent.) 8*2/3d.*; ammonium (78 to 79 per cent.) 7*1/2d.*; sodium, anhydrous, 5*1/2d.*; ditto, 67 to 68 per cent., 5*d.*; and sodium chromate (59 to 60 per cent.), 4*1/2d.* per lb.

BORAX has been advanced 1*s.* per cwt. to 23*s.* for crystals and 24*s.* for powdered. *Boric acid* is 2*s.* dearer, at 37*s.* for crystals and 39*s.* for powdered.

BROMIDES.—The American makers on July 7 officially advanced their prices of bromides and bromine from 25*c.* to 40*c.* per lb. in consequence of the heavy export demand and the scarcity of bromine. It is stated that this advance was "presumably with the view of discouraging buying, and may be the forerunner of further uplifts. There are, however, plenty of orders in the market at figures considerably above the new schedule, particularly for potash, granulated and crystals." In London prices show a hardening tendency, with sellers for prompt delivery at from 8*s.* 6*d.* to 9*s.* 6*d.* per lb. for potassium and sodium, and 9*s.* 6*d.* to 10*s.* for ammonium.

CAMPHOR (REFINED) is easier, with sellers of Japanese 2*1/2*-lb. slabs at 1*s.* 5*1/2d.* c.i.f. to arrive, and for 1*1/2*-oz. and 1*1/2*-oz. tablets 1*s.* 6*d.* c.i.f. has been paid. Spot sellers of slabs quote 1*s.* 8*2/3d.*, 1-oz. tablets 1*s.* 9*1/2d.*, and 1*1/2*-oz. at 1*s.* 9*d.*

CASCARA SAGRADA.—Three-year-old bark is offered at 2*s.* 6*d.* per cwt. on the spot.

CASSIA OIL.—To arrive 80 to 85 per cent. is easier at 9*s.* 9*d.* per lb. c.i.f., the spot value being 3*s.*

CHAMOMILES.—It is quite unlikely that any of the new Belgian crop will be available for the United Kingdom this year, so buyers will fall back on the French, a few bales of which can be had at from 100*s.* to 105*s.* per cwt. on the spot.

CINCHONA.—At the tender held at Amsterdam on July 14, 6,628 packages Java manufacturing bark, weighing 895,346 kilos., and containing the equivalent of 57,284 kilos. quinine sulphate, were on offer, the average percentage being 6.40*c.*, against 6.25*c.* Of the above quantity, 6,780 packages, weighing 586,294 kilos., with a quinine content of 37,116 kilos. quinine sulphate, were taken up by the makers. The unit was unchanged at 6.20*c.* At the auction of pharmaceutical bark on July 15, 1,498 packages offered, the quinine content 2,125 kilos., of which 735 packages with a quinine content of 951 kilos. sold at from 20*1/2c.* to 60*1/2c.*

CITRIC ACID continues very firm at from 3*s.* 5*1/2d.* to 3*s.* 6*d.* per lb. America is still open to buy here.

COCAINE is a little easier, owing to some weak holders offering at 14*s.* per oz., less 5 per cent. The position, however, in regard to the makers is as firm as before.

COCA-LEAVES.—At the auction held at Amsterdam on July 15, 2,691 packages, weighing 144,018 kilos., offered, the total alkaloidal content being 2,155 kilos., of which 1,281 kilos. were disposed of. The prices paid ranged from 7*3/4c.* per half kilo, and the average unit paid was 14.27*c.*, against 10.33*c.* The average unit paid for leaves was 14.71*c.* ad stems 10.20*c.*

COCOA-BUTTER.—Business has been done in English at 1*s.* 5*d.* per lb.

COD-LIVER OIL.—Private advices from Norway indicate that further large orders have been placed for prompt shipment to Russia, amounting to within a fortnight to about 16,000 barrels. It is stated that the stocks in Norway have never been so low. One of the principal holders in Norway quotes 400*s.* per barrel for finest new oil, subject to safe arrival. A Bergen advice, dated July 9, states that the demand has continued brisk, with prices rising from day to day; finest non-freezing medicinal oil (1915 crop) is quoted at from 300*s.* to 320*s.* per barrel f.r. Hull, war insurance extra, without engagement, but even higher prices are asked.

COLOONYTH-PULP.—A good business has lately been done in Egyptian of fine quality, principally for export, at varying prices.

COPPER SULPHATE is easier at 26*l.* 5*s.* per ton for the usual Liverpool brands.

CORIANDER-SEED is firm at 11*s.* to 12*s.* per cwt. for inferior to good quality Morocco.

COTMARIN is worth 2*1/2s.* per lb. to buy.

CREAM OF TARTAR.—The recent high price has restricted business, and for August shipment 99 to 100 per cent. powder is offered at 195*s.*; for prompt delivery from 195*s.* to 200*s.* is quoted, as to quantity.

CUMIN-SEED is steady at 55*s.* to 57*s.* 6*d.* per cwt. for ordinary to good quality Morocco on the spot.

EPSOM SALT.—English makers are taking steps to increase their output, and we understand that a fair quantity has been sold for forward delivery at a comparatively low figure, which indicates that the home producers may again be in a position to compete with the American makers.

ERGOT.—With good spot stocks and the export prohibited to all destinations, the market has an easy undertone, sound Russian offering at 2*s.* 3*d.* on spot.

FENUGREEK-SEED is dearer at 9*s.* 6*d.* per cwt. for common Morocco, and at 10*s.* 6*d.* for good.

GENTIAN is likely to be dearer, and for stuff to arrive the value is equal to about 33*s.* per cwt. landed terms. The crop is plentiful enough, but the scarcity of men labour will prevent much being dug.

GUM ACACIA.—The value of hard Sudan sorts has risen to 52*s.* 6*d.* to 55*s.* per cwt. on the spot; business has been done at 50*s.*

HONEY.—At auction 174 casks Cuban (naval prize), lying in Newcastle, sold at 27*s.* to 28*s.*, and two lots lying in London at 38*s.* 6*d.* to 39*s.* for yellow set.

HYDRASTIS is quoted 20*s.* 6*d.* per lb. c.i.f. to arrive.

LEMON OIL remains unchanged, but firm, offering at 6*s.* 2*d.* to 6*s.* 3*d.* c.i.f. The spot values are from 5*s.* 6*d.* to 6*s.* per lb. There is very little demand.

LIME OIL.—A limited quantity of West Indian expressed oil is offered at 7*s.* per lb.

LIQUORICE-ROOT.—Common natural undecorticated Persian has been sold up to 30*s.*, with 32*s.* 6*d.* asked.

MALE-FERN OIL.—The few cheap lots of genuine in dealers' hands appear to have been cleared, and nothing is now obtainable under 17*s.* 6*d.* per lb.

MENTHOL.—Very quiet, with sellers on the spot at 9*s.* 4*1/2d.* for Kobayashi, and July-August shipment at 8*s.* 6*d.* c.i.f.

MERCURIALS.—There are still a few small lots of second-hand supplies to be had at 1*d.* to 2*d.* per lb. below makers' prices.

MERCURY remains firm at 18*l.* 10*s.* per bottle.

METHYL SULPHONAL has been in comparatively little demand of late, with sellers at 22*s.*

MINT OIL.—Japanese dementholisised is quoted at 2*s.* 9*d.* to 2*s.* 10*d.* spot; July-August shipment has been sold at 2*s.* 7*1/2d.* c.i.f. Suzuki for September-October is quoted 2*s.* 8*d.* c.i.f.

MORPHINE remains very firm in makers' hands, who quote small lots of hydrochloride-powder for prompt delivery at from 13*s.* 3*d.* to 13*s.* 6*d.* per oz. Much of the export demand goes unfulfilled.

NUX VOMICA.—Market remains firm owing to short supplies, which is likely to be the position until the new crop offers towards the end of the year.

OILS (FIXED).—*Linseed* is lower on the week, pipes on the spot closing at 26*s.* 3*d.* and barrels 27*s.*, forward 26*s.* 6*d.* to 28*s.* 3*d.* *Cottonseed* quiet and unchanged, at 29*s.* for erudo in pipes, 31*s.* 3*d.* for pale refined in pipes, and 36*s.* to 37*s.* for sweet refined in barrels—all spot. *Ceylon Coconut* is steady at 42*s.* in hogsheads and 41*s.* in pipes; *Cochin* is 44*s.* to 47*s.*; *London pressed* is cheaper at 33*s.* *Colza* is 35*s.* to 37*s.* for ordinary brown, naked, on spot, and 38*s.* to 40*s.* for British refined. *Lagos Palm* is 31*s.* spot and 27*s.* 3*d.* in Liverpool. *Soya* is 26*s.* to 29*s.* 6*d.*, *ground-nut* 40*s.* to 50*s.* per cwt. *Stearin*, 55*s.* to 70*s.* *Lard*, 44*s.* to 55*s.* *Seal*, 28*s.* to 36*s.* 10*s.* per tun. *Whale*, 22*s.* to 28*s.* *Sperm*, 32*s.* to 35*s.*; and *Cod oil*, 22*s.* to 29*s.* per tun.

OPUM remains steady and unchanged, usual Turkey drugists' quality offering at 23s. on the spot. A small business has been done in Persian at unchanged rates.

PARALDEHYDE continues scarce at about 10s. 6d. on the spot. PEPPERMINT OIL.—H.G.H. is quoted 12s. 6d. per lb., London terms, and Wayne County at 6s. 6d. to 6s. 9d. net to arrive September-October; at this quotation the price appears to be favourable to consumers. *Todd's* crystal white is 9s. net to arrive.

PHENAZONE is obtainable at from 33s. to 34s. per lb., being a trifle easier.

PILOCARPINE is in good demand, at 12s. 6d. per oz. net for the hydrochloride and nitrate.

PODOHYLLUM-ROOT is quoted 56s. e.i.f. to arrive; business was recently done at 60s. spot.

POTASH PERMANGANATE in limited quantities is offered at from 28s. to 290s. per cwt.

QUININE remains very firm, with practically all dealers asking 1s. 5d. per oz. for the usual Continental brands of sulphate in bulk.

SALICYLATES remain without any special feature, prices being unchanged at from 15s. to 15s. 6d. per lb. for salicylic-acid crystals and sodium powder af from 15s. 6d. to 16s.

SALOL is offered at about 17s. 6d. per lb. and remains scarce.

SANTONIN.—Spot supplies are available at about 150s. per lb.

SENEGA is offered at 1s. 8d. per lb. e.i.f. to arrive, and on the spot 2s. 1d. net has been paid.

Senna.—Extremely high prices are asked from second-hands for Timuevelli, in the absence of adequate supplies. The new crop should be due in a month or so, but freight difficulties may cause delay.

SODA NITRATE is firm, at 12s. 7½d. to 13s. per cwt. net for ordinary to refined in Liverpool; on the spot 13s. 6d. to 14s. is quoted respectively.

SOY is temporarily scarce, but 200 to 300 easks are due shortly; 1s. 10½d. per gal. is quoted for Seuloong in limited quantity.

SPERMACETI.—American refined is quoted at from 9d. to 9½d. per lb. on the spot.

SQUILL.—Spot sales of good pale have been made at 21s. 6d. per cwt.

SULPHONAL.—Business has been done at from 19s. 6d. to 20s. per lb. with 21s. asked, being dearer.

TARAXACUM.—The market has been cleared.

TARTARIC ACID is very firm at 2s. 3d. per lb.

TURPENTINE is lower on the week, American on spot closing at 35s. 6d. and August 35s. 6d.

VANILLIN has again been advanced to 32s. to 33s. per lb.

WAX, BEES'.—Small sales of Chilian have been made in Liverpool at 8s. 17s. 6d. Gambia is quoted in that port at 8s. to 8s. 2s. 6d.

### Arrivals of Chemicals, Drugs, etc.

During the period July 14 to 20 inclusive, the following produce from the places mentioned in parentheses has arrived at the English ports stated. Goods in transit are not included. The figures denote packages where not specifically described:

To London.

Acetic acid (Rotterdam) dmjhns. 48, blns. 150, (N. York) brls. 107

Acetone (N. York) dms. 232

"Acid" (Naples) brls. 376

Albumen (Shanghai) es. 159

Alcohol, wood (N. York) dms. 27

Alocs (N. York) es. 10, (Mossel Bay) 30

Ammonia liq. (Amsterdam) dms. 15

Anilene dyes (Paris) eks. 15

Antimony cr. (Shanghai) es. 2,500

Antimony ore (Bona) tons 250, (Sydney) bgs. 126

Apricot-kernels (N. York) bgs. 200, (Frisco) 195

Arachis oil (Holland) eks. 400, (Rangoon) pkgs. 500

Argol (Barcelona) eks. 40, (Naples) bgs. 585

Arsenie (Oporto) brls. 42

Benzoin (Singapore) es. 37

Bismuth concentrates (Sydney) bgs. 12

Bismuth ore (Sydney) eks. 5

Boric acid (N. York) brls. 300, kgs. 100

Calcium carbide (Gothenburg) dms. 1,000

Calcium tartrate (Piraeus) bgs. 200

Calumba (Bombay) bgs. 100

Capsiums (Bombay) bdls. 40

Cardamom-seed (Tellicherry) es. 33

Caraway oil (Rotterdam) es. 4

Cellulose esters (Gothenburg) eks. 49

Chemical prod., medicines, perfumery, etc. (N. York) pkgs. 1,771, (France) es. 34, eks. 10, pkgs. 24, (Philadelphia) pkgs. 1,066

Chillies (Bombay) pkgs. 645

Cinchona bark (Amsterdam) es. 30, bls. 782

Citric acid (Marseilles) kgs. 24, (Paris) es. 8

Citronella oil (Cheribon) dms. 15

Cloves (Bombay) pkgs. 750

Cocaine (Rangoon) es. 3

Coconut oil (Cochin) pp. 90, hds. 200, (Singapore) es. 1,455, brls. 6

Cod-liver oil (Rotterdam) es. 50

Cream of tartar (N. York) eks. 40, brls. 56, (Marseilles) eks. 5

Cubebs (Amsterdam) bgs. 32

Dextrin (Rotterdam) bls. 358

Drugs (Dieppe) es. 33, (U.S.A.) pkgs. 62, es. 12

Elm-bark (Philadelphia) bls. 17

Eucalyptus oil (Melbourne) es. 63

Euphorbia pil. (Bombay) bls. 12

Farina (Amsterdam) bgs. 1,450

Formaldehyde (N. York) brls. 153

Ginger (Calicut) bgs. 230, es. 249, (Bombay) bgs. 848, es. 21, (H.-Kong) eks. 100

Glucose (N. York) 25

Glycerin (Durban) dms. 42, (Amsterdam) dms. 140

Glycothymoline (N. York) es. 340

Gum acacia (Bombay) bgs. 503

Gum copal (Macassar) pkgs. 3,938, (Amsterdam) bgs. 80, (Batavia) 70

Gum damar (Batavia) es. 100, (Singapore) 20

Gums, undescribed (Melbourne) es. 10, (Spain) es. 47

Honey (San Francisco) es. 1,900, (N. York) brls. 60, pkgs. 100, es. 200

Hydroquinone (Paris) eks. 5

Indigo (Samarang) es. 58

Jalap (N. York) bgs. 72

Kieselguhr (Arzew) tons 1,461

Linseed (Indian ports) bgs. 12,893, (R. Plate) tons 300

Lithopone (Rotterdam) 100

Magnesite (Holland) bgs. 150, eks. 60

Milk-sugar (N. York) brls. 10

Mineral waters (France) es. 201

Mineral white (Montreal) bgs. 200, (Melbourne) bgs. 806

Nux vomica (Calcutta) pockets 399, (Bombay) bgs. 479

Olibanum (Bombay) es. 25

Olive oil (Marseilles) es. 40, (Genoa) brls. 45, (Malaga) brls. 31

Orris (Leghorn) bgs. 32

Oxalic acid (Copenhagen) eks. 5

Pepper (Tellicherry) bgs. 1,200, (Lisbon) 386

Peppermint oil (Philadelphia) bxs. 50

Perfumery (Amsterdam) es. 6, (N. York) es. 99, (France) es. 22

Quicksilver (Leghorn) bott. 595, (Lisbon) bott. 13

Rapeseed oil (Japan) es. 1,020

Rhubarb (Shanghai) es. 27, (Marseille) es. 350

Roots, barks, herbs, etc. (N. York) bls. 46, brls. 6, (Philadelphia) bgs. 10; leaves (Marseille) bls. 23

Saccharin (Dieppe) es. 10

Sarsaparilla (N. York) bls. 10

Soda caustic (Uddevalia) es. 32

Soda hyposulphite (N. York) kgs. 2,981, brls. 180, dms. 113

Soda nitrate (Chile) bgs. 25,122

Soda sulphate (Paris) eks. 20

Soya-bean oil (Japan) es. 5,500, dms. 60

Tannic acid (Boulogne) eks. 12

Tartar (Marseilles) es. 55, (Barcelona) brls. 123, (Alcante, etc.) bls. 77, bgs. 484

Tartaric acid (Genoa) brls. 44, (Leghorn) eks. 120

Turmeric (Bombay) bgs. 365

Turpentine (U.S.A. ports) brls. 4,500

Wax, bees' (Oporto) bls. 41, (N. York) bgs. 70, (Bombay) pkgs. 20

Wine-lees (Alicante) bgs. 462, (Piraeus) bgs. 200

Wood oil (Shanghai) eks. 838

Zinc oxide (N. York) e. 2,101, (Holland) 250

Soda sulphate (N. York) kgs. 560

Sulphur (Catania) bgs. 2,453

Tartaric acid (Naples) brls. 51

Wax, bees' (Mombasa) bgs. 10, (W.C. Africa) bls. 11, blocks 964

Zinc oxide (N. York) brls. 1,000

To Liverpool.

Alcohol, wood (Newport News) brls. 118

Alocs (N. York) es. 106

Ammonia anhyd. (Baltimore) cyl. 660

Aniline colours (Bordeaux) 23

Antimony ore (Halifax, N.S.) brls. 238

Argol (Messina) bgs. 300

Arrowroot (Halifax, N.S.) 50

Balsams (N. York) es. 14, (Para) es. 27

Borie acid (Leghorn) brls. 41

Carbon black (Baltimore) 200

Cascin (Charente) bgs. 267

Chillies (Naples) bgs. 24

Cod-liver oil (St. John's, N.F.) eks. 198

Cod oil (St. John's, N.F.) 117

Cream of tartar (Spain) brls. 42, eks. 62, (Bordeaux) eks. 85, (Oporto) eks. 10

Drugs, etc. (Havre) es. 308, (N. York) pkgs. 80, (Bordeaux) es. 18

Essential oils (Sicilian ports) pkgs. 41

Formaldehyde (N. York) 27

Ginger (W.C. Africa) bgs. 2,126

Glycerin (Bordeaux) eks. 32

Gum acacia (P. Sudan) bgs. 50

Gum almedina (Lisbon) bgs. 30

Gums, undescribed (W.C. Africa) brls. 1,373, (Lisbon) bgs. 36

Honey (Bordeaux) eks. 22

Lemon-juice (Messina) pps. 20

Lemon oil (Palermo) pkgs. 23

(see also Ess. oils)

Lime-juice (N. York) pns. 92

Liquorice (Naples) pkgs. 20

Manna (Italy) es. 5

Mineral white (Bordeaux) bgs. 500

Olive oil (Malaga) brls. 90, (Leghorn) bxs. 400, ¼ eks. 10, (Naples) pkgs. 25

Palm-kernels (W.C. Africa) bgs. 29,349

Palm oil (W.C. Africa) eks. 1,867

Perfumery (France) es. 79

Petrolatum (N. York) brls. 17

Petroleum jelly (N. York) pkgs. 712

Potash chloride (Bordeaux) eks. 100

Potashes (Montreal) brls. 17

Roots, barks, herbs, etc. (N. York) pkgs. 14

Rosin (Bordeaux) eks. 403

Sal. ammonia skimmings (Baltimore) bgs. 263

Salt-petre (Caleutta) bgs. 749

Soda nitrate (Iquique) bgs. 52,161

Soda sulphate (N. York) kgs. 560

Sulphur (Catania) bgs. 2,453

Tartaric acid (Naples) brls. 51

Wax, bees' (Mombasa) bgs. 10, (W.C. Africa) bls. 11, blocks 964

Zinc oxide (N. York) brls. 1,000

To Manchester.

Dextrin (Rotterdam) bgs. 44

Formic acid (Rotterdam) ebs. 48

Lithopone (Rotterdam) eks. 44

Medicines (Boston) es. 39

Phosphorus (Montreal) es. 250

Potash prussiate (France) 21

Soda prussiate (Rouen) eks. 6

To Bristol.—Glucose (N. York) 1,500; zinc oxide (N. York) 300.

To Folkestone.—Drugs (Boulogne) pkgs. 457. To Goole.—Magnesite (Rotterdam) bgs. 65. To Grimsby.—Ammon. nit. (Skien) eks. 35; chemical prod. (Dieppe) pkgs. 15; soda nitrate (Skien) eks. 35. To Hull.—Bromine (N. York) es. 122; chemical prod. (N. York) brls. 248; cottonseed (Alexandria) tons 1,322; cream of tartar (Marseilles) eks. 28; dextrin (Rotterdam) 50; formic acid (Rotterdam) blns. 178; manna (Palermo) es. 10; quebracho ext. (B. Ayres) bgs. 1,000; quicksilver (Leghorn) bott. 200; roots (Marseilles) bls. 32; soda hypo. (N. York) brls. 120, soda prussiate (Amsterdam) es. 20; sodium metal (Sweden) es. 23; sulphur (N. York) bgs. 541, (Catania) tons 103, bgs. 1,700; sulphuric acid (Amsterdam) dms. 50; tartaric acid (Marseilles) eks. 10; zinc oxide (N. York) 250. To Preston.—Ammonia nitrate (Fredrikstad) eks. 119; calcium carbide (Odda) dms. 1,260. To Southampton. Wax, bees' (St. Malo) pkgs. 27.

**Heavy Chemicals.***Manchester, July 20.*

There is no particular change to note in heavy chemicals, so far as the North is concerned, and makers are full up with orders, but have difficulty in effecting deliveries. Offerings on American account in this department are fairly good, and forward prices are on a competitive level with British products. There are few changes to note in the past week in other departments. Sulphate of copper is lower, at from 27*l.* to 27*l.* 7*s.* 6*d.* per ton, delivered Manchester. Rock sulphur favours buyers. Permanganate of potash is unchanged at 300*s.* pending United States arrivals. Caustic potash appears in the list again, and is quoted to arrive at 160*s.* for 88 to 90 per cent. Coal-tar products quiet generally, although sulphate of ammonia is firmer at 14*l.* to 14*l.* 5*s.* London, 14*l.* 15*s.* Hull, 15*l.* Leith (5*s.* more for forward delivery), and 14*l.* 7*s.* 6*d.* to 14*l.* 10*s.* per ton on rails, Manchester. Carbolic acid and benzols are unchanged.

**English Medicinal Herb-crops.**

Stafford Allen & Sons, Ltd., write: Most of our medicinal-herb crops have been adversely affected by the prolonged drought.

ACONITE is very short, but the roots may develop later.

BELLADONNA.—We anticipated quite a good crop, but owing to the long drought in the spring the herb has made very little progress, and the tonnage was nothing like what we had anticipated, although the quality of the herb was excellent. Some of the seedling plants were badly nipped by the late frosts.

HENBANE was another crop of which we had great expectations. Plants were promising well, and we should undoubtedly have had a really good crop if it had not been for the great lack of rain just at the time when it was most wanted. The plants began to flower abnormally early, instead of making good green growth. The gathering of the leaf to meet the requirements of the 1914 Pharmacopœia has proved a most tedious and expensive process, and, in our opinion, the quality does not compare in appearance or aroma with the dry tops that have hitherto been produced. We are strongly of opinion that the description in the Pharmacopœia should be amended so as to include the flowering-tops. The rain we have had recently will materially help the first-year plants.

DIGITALIS.—The crop has been an average one, and the leaves are testing high in potency.

VALERIAN will again only be a short crop, but the recent rain will materially help this.

DILL is another crop which is rather short in the "straw," but is showing flower well, and we have the promise of a fairly good crop.

RED POPPIES appear to be plentiful this year, and we have had a fair supply brought in.

ELDER-FLOWERS.—The same remarks apply.

PEPPERMINT.—This has suffered very severely from the dry summer of last year and the drought in the spring. The plants are not looking at all well, and we are expecting a very short yield of oil.

LAVENDER.—This has come through the winter better than for a year or two past, and is looking exceedingly well. If the fine weather continues, we shall expect a good crop, and the oil should be of excellent quality.

**Continental Drug and Chemical Markets.**

The following notes chiefly refer to the Hamburg and Berlin markets under date of June 26 and 27.

AGAR-AGAR.—The demand has again increased, and m.9.50 per kilo. has been paid for No. 1 strip.

ALBUMEN (EGG) has been sold at from m.14 to m.15 per kilo.

BLEACHING-POWDER.—The demand has so much increased that the makers are unable to cope with it, but the delay will be of a temporary character only; prices have advanced.

CAMPHOR.—Synthetic in powder is asked for in large quantities. Two qualities are to be had, which are quoted at m.600 and m.700 per 100 kilos.

CANTHARIDES have been sold at m.30 per kilo.

CEVADILLA-SEED is higher in consequence of increased demand. Good black is not obtainable below m.175 per 100 kilos.

CITRIC ACID is asked for in large quantities again, and prices are still advancing; m.11.50 per kilo. has been paid for prompt delivery, m.11.25 for July, and m.11 for August delivery.

CONDURANGO.—The demand has somewhat increased, and m.75 to m.77 per 100 kilos. has been paid.

CREAM OF TARTAR is offered in large quantities and prices are unaltered, 99 to 100 per cent. offering at m.6 and 95 per cent. at m.5.75 per kilo.

ERGOT is quiet and in little demand; Hungarian and Russian are both obtainable at m.5.75 per kilo.

GUM ACACIA is still in active demand; m.140 per 100 kilos. has been paid.

IPPECACUANHA is firm at m.38 per kilo. for Cartagena and m.42 for Rio.

KOLA is firm, buyers supplying immediate wants only. Quarters are offered at m.135 and halves at m.130 per 100 kilos.

LYCOPodium is very firm at m.6.75 per kilo. in cases and m.6.65 in barrels.

MENTHOL is quiet at from m.34 to m.35 per kilo., and recrystallised m.40 to m.42.

OILS (ESSENTIAL).—Star Anise is unchanged. Russian Beech-tar is obtainable at m.45 per 100 kilos. *Cassia* is still obtainable at from m.8.75 to m.9.50 per kilo. *Eucalyptus* is still offered at m.4.75 per kilo. For Ceylon *Lemon-grass* m.6.25 per kilo. is asked. *Lime* is unchanged. *Japanese Mint* meets with more interest at m.14.50 per kilo. Siberian *Pine-needle oil* is in increased demand at m.350 per kilo.

OILS (FIXED).—Contracts for the 1915 crops of rape, flax, poppy, and other oil seeds have officially been declared invalid.

OPium.—The new crop is said to be unsatisfactory. The price has not advanced much as yet, and 10 per cent. test is still about m.40 per kilo.

SHELLAC is in active demand. For TN m.215 per 100 kilos. has been paid. The better qualities were also inquired for in large quantities, and were sold at from m.240 to m.270 per 100 kilos. AC Garnet is to be had at m.235 per 100 kilos.

SODIUM BICARBONATE has advanced by from 10 to 20 per cent.

TARTARIC ACID is offered at m.9 for crystals and m.9.25 for powder.

THEOBROMINE.—The Convention has advanced the price by m.10 per kilo. for pure theobromine, and prices of the salts have advanced proportionately. Pure is quoted m.74 per kilo.

THYMOL is unaltered at m.55 per kilo.

WAXES.—Bees' is unchanged. *Carnauba* is quoted at m.500 per 100 kilos. *Japanese* is higher; the demand has increased, and m.210 per 100 kilos. is quoted.

**American Drug-market.***New York, June 30.*

During the month the general drug-market continued its upward course, but, owing to the smallness of spot supplies, only a slight volume of business was transacted. There is no sign of weakness in any branch of the market, and the tone remains generally strong. Quinine was advanced to 30*c.* per oz. in 100-oz. tins, and up to 32*c.* continues to be asked by second-hands. Hard mercurials have advanced 7*c.* per lb., and soft mercurials 3*c.* per lb.

ALOES.—Curaçao is in more liberal supply. Revised quotations are 11½*c.* to 12*c.* for both cases and gourds. Aloin is easier, owing to the shading in the price of aloes. Prices have been reduced to 85*c.* and 90*c.*

ANTIPYRIN has advanced to a basis of \$9.50 to \$10.00.

ARNICA-FLOWERS have undergone an advance, and are now being sold on the basis of 22*c.* and 23*c.* per lb.

BALSAM PERU was maintained at \$3.50 and \$3.75 per lb., the demand being moderate. Tolu has been reduced to 40*c.* and 42*c.* per lb., and sales have been made at 37½*c.*

BELLADONNA-ROOT has sharply declined to 90*c.* to \$1.00 per lb. Leaves were also reduced to 85*c.* to 95*c.*

CANADA FIR has been dull recently, and the market is easy, with supplies available in barrels and cans at \$5.50 per gal. Oregon continues steady at 70*c.*

EPSON SALTS has advanced to \$3.50 to \$4.00 per cwt.

IPPECACUANHA.—Cartagena is easier, owing to increased supplies and freer offerings from some holders who desire to realise. Prices have been reduced to \$2.70.

JALAP.—The demand has been light recently, and prices have been reduced to 9*c.* and 11*c.* per lb.

MENTHOL is dull, and the lack of demand was reflected in the reduction of prices to \$2.70 and \$2.80 per lb.

PEPPERMINT OIL (AMERICAN).—Offerings from the country were freer, but there was no new developments locally. Prices remained steady at \$1.60 per lb.

RESORCIN has advanced to \$2.50 per lb.

SAFFRON.—American flowers continue to rise, and several holders have advanced their prices to a basis of 70*c.* per lb., although offerings still appear at 65*c.*

SARSAPARILLA.—Mexican is stronger. Prices have been advanced to 14*c.* and 16*c.*

THE VICTORIAN GOVERNMENT has recently established a Board to encourage in Victoria the growth of medicinal plants.

## Pharmaceutical Society of Ireland.

### Council-meeting.

THE Council met at 67 Lower Mount Street, Dublin, on Tuesday, July 13, Mr. D. M. Watson (President) in the chair. Others present were Dr. Charles J. B. Dunlop, Messrs. J. E. Connor, J.P., William J. Hardy, James Michie, John Smith, A. Owen Wells, and P. N. White, J.P.

The PRESIDENT reported on the Irish branch of the Belgian Medicco-Pharmaceutical Relief Fund substantially as stated in the *C. & D.*, July 17, p. 37. Regret was expressed that no delegate could go to the meeting of the British Pharmaceutical Conference on July 14.

#### NOTIFICATIONS OF DEATHS

were intimated as follows: H. M. Prior, Ph.C., Derry; Thomas Madden, chemist and druggist, Ballinlough; Gilliland Kennedy, registered druggist, Ardee; and William John Dunwoody, Ph.C., M.P.S.I., late of Ballybay.

#### CHANGES OF ADDRESS.

The following changes of address were notified:

Honora M. Dooley, Ph.C., to 3 Sydenham Villas, Dun-drum, co. Dublin.

B. R. Allshire, Ph.C., to the Medical Hall, Glasnevin, Dublin.

H. G. Eaton, Ph.C., to 36 Willow Bridge Street, Leicester, England.

R. L. Boyd, Ph.C., to the Parkgate Pharmacy, 33 Parkgate Street, Dublin.

A. J. O'Shea, Ph.C., to Greencastle Street, Kilkeel, co. Down.

J. B. Fraichney, Ph.C., to the Medical Hall, Graiguenamanagh, co. Kilkenny.

Michael Stack, Ph.C., to the Medical Hall, Glin, co. Limerick.

George Strong, Ph.C., to the Medical Hall, Dungarvan, co. Waterford.

James McCutcheon, R.D., to the Drug Hall, Castle Street, Ardee.

P. Brennan, R.D., to Arva, co. Cavan.

Thanks were voted to the donors of books for the library.

#### MEMBERS AND ASSOCIATES.

The following were elected members of the Society: Thomas Hamilton Edgar, Ph.C., 14 Bow Street, Lisburn; John Hall, Ph.C., Orangefield, Belfast; and Patrick O. Joseph Ronan, The Pharmacy, 10 Market Street, Lurgan.

The following were nominated for membership: John Adams, Ph.C., Earlswood Pharmacy, 281 Upper New-townsards Road, Ballyhackamore, Belfast; John Corbett, Ph.C., Medical Hall, Mitchelstown, co. Cork; Morgan M. D'Arcy, Ph.C., The Tipperary Pharmacy, Tipperary; William Finegan, Ph.C., Ludlow Street, Navan, co. Meath; Harry Hoskin, Ph.C., The Medical Hall, Clonakilty, co. Cork; Michael Joseph Howard, Ph.C., The Medical Hall, The Square, Kilrush, co. Clare; Patrick David Larkin, Ph.C., Byrne's Medical Hall, 12 West Street, Drogheda; John Mockler, Ph.C., The Square, Thurles, co. Tipperary; John Mullin, Ph.C., 8 Jubilee Terrace, Portadown; Francis David Smyth, Ph.C., 43 Great Brunswick Street, Dublin; John Patrick Thomas Timmon, Ph.C., Timmon's Medical Hall, Navan, co. Meath; Christopher Stanislaus Tynan, Ph.C., The Medical Hall, Newtownbarry, co. Wexford; and Patrick Joseph Burns, Ph.C., 81 Morehampton Road, co. Dublin.

The following were nominated for election as associate druggists: Simon P. Cullen, R.D., The Drug Hall, Drogheda; George C. Hewson, R.D., Knox Street, Ballina, co Mayo; and Albert Leo McDermott, R.D., Main Street, Shercock, co. Cavan.

#### OTHER BUSINESS.

Mr. John McBirney, M.P.S.I., M.R.C.V.S., was re-elected a chemistry examiner.

Reports were submitted from the following and adopted: The Preliminary Examiners (from whose report it appeared that twenty-two candidates had presented themselves for examination, of whom fourteen passed, two of them with honours), the Law Committee, the Certificates Committee, the Declarations Committee, the House Committee, the School Committee, and from the Registrar regarding the deaths of Dr. John Vincent Byrne, Ph.C., Drogheda; Thomas S. Hance, Ph.C., Augher; and Jonathan Boardman Morris, Ph.C., Templemore. The Registrar was directed to erase these three names from the Register.

## Trade-Marks.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with the Registrar of Trade-Marks, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C. The prescribed time is one month from the date of the Journal in which the application has appeared; but the period may be enlarged by the Registrar, if he thinks fit, and upon such terms as he may direct. Formal opposition should not be lodged until after notice has been given by letter to the applicant for registration, so as to afford him an opportunity of withdrawing his mark before the expense of preparing the notice of opposition is incurred. Failing such notice to the applicant, an opponent may not obtain an order for costs.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1915, p. 435.

(From the "Trade-marks Journal," June 30, 1915.)

"KAPZOLIC"; for all goods (2). By Day & Emery, 31 Islington, Liverpool. 365,524. (Associated.)

Device of animals' heads, with words "PASTA MACDOUGALL"; for veterinary preparations (2). By McDougall Bros., Ltd., 66 and 68 Port Street, Manchester. 367,018. (Associated.)

"STCYDE"; for an insecticide (2). By Sarah A. Caswell, 2 Chapel Ash, Wolverhampton. 367,564.

Device, with words "DURALYSOL" and "SOLID LYSOL"; for Lysol disinfectant (2). By Connart Chemical Co., Ltd., 4 Lloyd's Avenue, E.C. 367,407.

"SAVALLO," under picture of man bandaging his arm; for salves and ointments (3). By Savallo Co., 23 Chelverton Road, Putney, S.W. 366,046.

"AVIO"; for a medicated food (3). By Catherine M. Charlton, Homeleigh, Wimblehurst Road, Horsham. 367,174.

"KEENORA"; for all goods (3). By Morris & Jones, 13-17 Sir Thomas Street, Liverpool. 367,646.

Circular device, with word "PROTEX"; for protective appliances for x-ray workers (11). By C. Andrews, 47 Red Lion Street, W.C. 367,536. (Associated.)

"TOPSAIL"; for food substances (42). By J. Travers & Sons, Ltd., 119 Cannon Street, E.C. 367,428. (Associated.)

Oval device, with words "MASON'S AERATED JAFFARADE" etc., and cut orange ("Mason's" disclaimed); for an aerated beverage (44). By T. Mason & Sons, Hume Street, Smethwick. 366,216.

Device of letters "T. Co." bearing words "STANWELL BRAND" ("Stanwell" disclaimed); for goods (47). By Truslove & Co., St. Peter's Street, Colchester. 367,092.

"HYPOZONE"; for bleaching-powders, etc. (47). By Hypozone, Ltd., 25 Wellington Place, Belfast. 367,093.

Picture of goblin, with words "GOBLIN SOAP WORKS WONDERS"; for soap (47 and 48). By The Cudahy Packing Co., 111 West Monroe Street, Chicago, U.S.A. 367,629/628. (Associated.)

"VELLSKY"; for toilet-powder (48). By Isobelle Deacon, 46 Crayford Road, N., and A. W. Shirley, Whitecross Works, Rockingham Street, S.E. 367,175.

"KURANIUM"; for perfumery, etc. (48). By M. F. Pratt, 212 Great Portland Street, W. 367,208.

"DELICO"; for all goods (48). By W. H. Keep, Craven House, Kingsway, W.C. 367,225.

"KIALO"; for all goods (48). By J. M. Whyte, 5-7 Ormeau Avenue, Belfast. 367,724.

"PYNOTIS" and "SKITTLES"; for perfumery, etc. (48). By G. W. Goodwin & Son, Ordsall Lane Soap-works, Manchester. 367,758/9.

"SLONETRIC"; for electric insulating materials (50). By Sloan Electrical Co., Ltd., 12 Golden Lane, E.C. 366,712.

(From the "Trade-marks Journal," July 7, 1915.)

"CELOLITE," with frame device; for chemicals (1). By Gerstendorfer Bros., 231-235 East 42nd Street, New York, U.S.A. 366,180.

"CARBLOC" and "CARBLOS"; for disinfectants (2). By W. Voss & Co., Ltd., Glengall Road, Millwall, E. 367,637/8. (Associated.)

"HEDEX"; for medicinal chemicals (3). By Cooper, Son & Co., Ltd., 80 Gloucester Road, South Kensington, S.W. 367,511.

Oval device of African girl, with words "NKU CREAM" and "F. & A. SWANZY, LIMITED"; for a medicated pomade (3) and for toilet cream (48). By F. & A. Swanzy, Ltd., West African House, Kingsway, W.C. 366,698/9.

"VOXODDS"; for a medicine (3). By Haywards, 35 Leicester Square, Walsall. 367,185.

"VITAFORM" and "SOLOFORM"; for medicinal chemicals (3). By Southall Bros. & Barclay, Ltd., 19-21 Lower Priority, Birmingham. 367,766/808. (Associated.)

"REGETIMA"; for horological instruments (10). By Boot's Pure Drug Co., Ltd., 37 Station Street, Nottingham. 367,905.

"HELVIA"; for surgical bandages, etc. (11). By Leslie's, Ltd., 18 Eldon Street, E.C. 367,850.

Chinese devices and characters; for goods (34) and for cellulose fabrics (50). By The Bradford Dyers' Association, Ltd., 39 Well Street, Bradford. 366,524/618/525/619. (Associated.)

Device of lion, sphinx, and flags; for food substances (42). By W. C. Smith, "Doo Castle," Wilderton Road, Branksome Park, Bournemouth. 365,587.

"KHAKI"; for goods (42). By Slade & Bullock, Ltd., Bradford Street, Dewsbury. 366,689.

"LEST YOU FORGET"; for food substances (42). By Scott & Rosse, Ltd., Chesham New Road, Bury. 367,081. (Associated.)

"VEGAIL"; for food substances (42). By J. Hey & Co., Ltd., Northbrook Brewery, Wilson Square, Bradford. 367,427.

"TWEEDLEDEE"; for all goods (42). By S. Henderson & Sons, Ltd., Slatford Road, Edinburgh. 367,576. (Associated.)

"ST. GEORGE'S BRAND," with medal device; for milk (42). By Nestlé and Anglo-Swiss Condensed Milk Co., 6 and 8 Eastcheap, London, E.C. 367,755. (Associated.)

"PROBONO"; for food substances (42). By A. Button & Sons, Belmont Road, Uxbridge. 367,652.

"ECONO"; for chocolate, etc. (42). By Suchard Société Anonyme, Neuchâtel, Switzerland. 367,805.

"SALIDRIS, THE SPARKLING BRITISH TABLE WATER," and picture of waterfall; for an aerated beverage (44). By Idris & Co., Ltd., 120 Pratt Street, Camden Town, N.W. 367,212. (Associated.)

"TIPS"; for laundry blue and cream. By Day & Martin, Ltd., Stratford, E. 367,101.

"DI-TETRA"; for all goods (47). By J. Dyson & Co., Ltd., South Lane, Elland. 367,370.

"SAGA," with picture of group of Scandinavians; for goods (47) and for perfumery, etc. (48). By Lever Bros., Ltd., Port Sunlight. 367,858/9. (Associated.)

"EUDENTIL"; for a dentifrice (48). By S. R. Heath, 28 Orchard Street, Bristol. 366,504.

"CRESCOLENE"; for a hair tonic (48). By Miss Sugden, 33a Leys Avenue, Letchworth. 366,558.

"JEANIE"; for perfumery, etc. (48). By United Drug Co., 48 Leon Street, Boston, U.S.A. 366,566.

"SAPOPIX"; for shampoos, etc. (48). By J. S. Gregson, Ltd., 45 Renfield Street, Glasgow. 367,574.

"PEACOCK," with picture of same; for perfumery, etc. (48). By W. Gossage & Sons, Ltd., Widnes. 367,813. (Associated.)

"IVORLITH"; for goods made from a vegetable product composition (50). By The Ivorlith Co., Ltd., Barnsbury Hall, Barnsbury Street, Islington, N. 367,419.

"VICTORY"; for brushes (50). By J. Palmer, Ltd., Somers Road North, Portsmouth. 366,870.

(From the "Trade-marks Journal," July 1, 1915.)

"POLLUX"; for a photographic chemical (1). By Irene de Waal, 4 Belmont House, Candoover Street, London, W. 367,240.

"PHOTOSTAT"; for photographic chemicals, etc. (1). By Commercial Camera Co., Weybosset Street, Providence, Rhode Island, U.S.A. 367,513.

Label devices, including words "DR. STOHR'S KEPHALDOL" ("Dr. Stohr's" disclaimed); also device with words "KEPHALDOL-STOHR" and Russian characters ("Stohr" disclaimed); for an anti-neuritic medicine (3). By Kephaladol, Ltd., Norwich Street, E.C. 366,512; 367,064/5/6/7. (Associated.)

FLUZO"; for medicines for headache, neuralgia, influenza, and rheumatism (3). By A. S. Price & Co., Ltd., 181 High Street, Blackheath, Birmingham. 367,531.

RADMAR"; for influenza and headache medicines (3). By S. Radcliffe, 72 Shaw Road, Oldham. 367,565.

"PINNACLE" and "SILVER STREAM"; for medicinal oils (5). By J. I. Lowles, 24 and 25 Great Tower Street, E.C. 367,678/9.

"HOROSCOPE"; for respirators (11). By J. Hoare, 40 Sandringham Road, Dalston. 367,825.

Device "P. S. STORES, LTD.;" for food substances (42). By Public Service Stores, Ltd., 210 Westminster Bridge Road, S.E. 363,930.

"ANCHOLA"; for food substances (42). By F. W. Waide & Co., Ltd., Hillmorton Road, Caledonian Road, N. 367,327.

"SANALACTINE"; for food (42). By Cascin, Ltd., Shepcote Lane, Battersea, S.W. 367,334.

"ORANALE"; for food substances (42). By Stevenson & Howell, Ltd., 95a Southwark Street, S.E. 367,810. (Associated.)

"TRIPSA"; for a chemical for removing scale from boilers (1). By Perry & Hope, Ltd., Thornliebank Road, Nitshill, near Glasgow. 367,453.

"AQUALIS"; for all goods (44). By The Yacht Beverage Co., Ltd., 12 North Street, Exeter. 367,807.

"NEBO"; for seeds (46). By Potter & Clarke, Ltd., 60-64 Artillery Lane, E. 367,999.

"EUTELIA B & C"; for non-medicated toilet preparations (48). By Bontems & Cooper, 1 Golden Square, W. 367,723.

"CHANDRA"; for perfumery, etc. (48). By The Oriental Beauty Bureau, 17 Nassington Road, Hampstead, N.W. 367,976.

## India and the East.

(From the "C. & D." Correspondents.)

PERSONAL.—Mr. A. J. Martin, general manager of Cargills, Ltd., Colombo, Ceylon, left for England on June 19 on six months' furlough. Mr. T. R. Mitchell, pharmacist and manager of the drug department, acts for him.

OVERSEAS TRADE.—The official returns of imports into and exports from India in 1914 show that the total imports into India were larger than in 1912 and only 14 per cent. less than in 1913. Exports were valued at 138 millions sterling in 1914, against 160 millions in 1913 and 159 millions in 1912.

COCAINE-SMUGGLING IN THE PUNJAB.—A quack-doctor named Gohar has been arrested, with his servant, while attempting to sell cocaine at "Sultan-ki-sarai," Lahore. They had six phials of the drug in their possession, and they were alleged to be trading between Delhi and Lahore. Mahant Durga Dass, chemist, of Mahant Charan Dass & Sons, Ltd., at the request of the Excise authorities, had tested the drug, and found it to be cocaine.

SALTPETRE.—The Government of India are considering a report on the saltpetre-industry in the United Provinces submitted by Mr. Connolly, Commissioner of Northern India Salt Revenue. It is understood that the saltpetre area will be marked out, and favourable terms offered for its development. A statement showing the exports from Calcutta in 1914 gives the total as 13,842 tons. The largest amount (6,354) went to the United Kingdom, the second largest (2,710) to China and Japan, and the third (2,060) to Colombo. The demand has increased greatly since the war, but the supply is said to be unlimited.

INDIGO.—H.M. Consul at Pondicherry reports that some twenty years ago the exports of indigo from Pondicherry were an important item, but with the introduction of synthetic indigo the trade began to decline. The imports of synthetic dyes from Germany having ceased, there has been a great demand for natural indigo, and prices exactly doubled during 1914—viz., from Rs. 40 to Rs. 80 per maund (*i.e.*, from about 2s. 2d. to about 4s. 4d. per lb.) for Kurpahis No. 1 quality. This enormous increase has given a corresponding impetus to the manufacture of natural indigo, and a large increase in the area under cultivation is already reported.

POTASH-SALTS DEPOSITS.—In July last, Dr. W. A. K. Christie, accompanied by the Chief Inspector of Mines in India and the Assistant Commissioner Northern India Salt Revenue Department, Khewra, visited the Stassfurt potash-mines, and they found the Prussian deposits to differ markedly from those in India. The Punjab deposits have been affected to a much greater extent by thermal metamorphism, so that carnallite, for instance, one of the chief products mined at Stassfurt, is unknown in India. The possibility of the economical exploitation of the Indian deposits has been enhanced since the war, and the subject is now engaging the attention of the Indian Government.

**JAPANESE TRADE IN INDIA.**—The extent to which Japanese merchants are taking advantage of the opportunities afforded by the war of securing fresh markets in India is the subject of an article in the "Indian Agriculturist," in the course of which it is stated "that Japan for some years past has been steadily gaining ground in India is, of course, well known, but a study of the statistics compiled at the Calcutta Customs Office shows clearly what strides have been made as far as Bengal is concerned since August last." Particulars of many items in which Japan is doing a much larger business with India are given, prominent among which are glass and glassware, matches, and toilet-soaps, the imports of the last item since August 1914 to the end of March being valued at Rs. 24,055, compared with Rs. 18,288 in the corresponding period of 1913-14.

**BENGAL SALT-PETRE.**—It has been recently notified that the Indian Government has prohibited the exportation of salt-petre to all ports except those of the United Kingdom. Exporters of salt-petre have pointed out to the Bengal Chamber of Commerce that they were under contract to ship high-quality salt-petre to Ceylon, where it is used as a fertiliser. They contend that the embargo would consequently press heavily upon them, and they suggest that the Chamber should telegraph to the Government of India asking that British merchants should be permitted to complete contracts already entered into. The Committee considered this proposal, but they were not disposed to take action. It appeared to them that salt-petre is an article of paramount importance for military purposes, and that they ought not, therefore, to intervene as regards the Government requirements.

## Russian News.

**CYANIDE-FACTORY WANTED.**—At a conference of representatives of the Russian gold-mining industry, held at Moscow on May 7, it was decided to address a petition to the Government for the establishment of a concern for the manufacture of potassium cyanide.

**PHARMACEUTICAL PRODUCTS.**—A United States Consular Report, dealing with pharmaceutical products in Russia, says that the scarcity of supplies in Sweden, and difficulties experienced in exporting from France and Great Britain, have made it hard to obtain supplies in Russia. The scarcity includes salicylic acid, carbolic acid, castor oil, pyranidone, opium alkaloids, etc. Japan, however, is supplying menthol, camphor, iodine, and other preparations direct. Communication with the United States is only possible through Japan, because such goods, if shipped *via* Sweden, are retained in that country. More expensive preparations are now being received from England by parcel-post. It is reported that the production of salicylic acid, of which there is great scarcity, has been started in Warsaw.

**RUSSIAN IODINE.**—Previous to the war Russia was dependent upon Germany for supplies of iodine, but in March of this year Professor L. V. Pisarzhevsky and his assistant, N. D. Auerkiew, organised at Ekaterinoslav an experimental station for the extraction of iodine from seaweed. The seaweed used is not the brown seaweed (*Fucus*) from which iodine is obtained in France and Britain, but a red seaweed (*Pryllophora*), two varieties of which are found on the Russian Murman coast. Supplies of the seaweed for the Ekaterinoslav experimental station are obtained from the Odessa-Dunai-Sevastopol region of the Black Sea, where it forms huge growths at a depth of between twenty and thirty fathoms, which were discovered by Professor S. A. Zernov in 1909. The first experiments were made under the auspices of the military authorities, and 18 lb. of iodine was obtained. The seaweed is burned in special kilns, and the iodine is obtained from the kelp solution by a catalytic process. Special apparatus is being prepared for the extraction of the iodine. It is hoped that the output of iodine will reach 114 lb. per month, and that even this yield will be increased with improvements in the plant. The entire output for the present is intended exclusively for the military authorities, so that it cannot yet be stated whether this source of supply will prove commercially important or not.

**GERMAN POTASH SALTS.**—During the first five months of 1915 the Syndicate sales of potash salts declined in value by 2,100,000<sup>l</sup>, compared with the corresponding period of 1914, and the total decline since the outbreak of war down to the end of June 1915 was 5,000,000<sup>l</sup>. The annual report of the Syndicate makes melancholy reading, the greatest diminution being in the export markets, especially the United States, France, and the United Kingdom.



## Memoranda for Correspondents.

Communications should be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with. Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest.

Correspondents are requested to write each query on a separate piece of paper. Every endeavour is made to reply to queries without delay, but insertion of the replies in "the next issue" cannot be guaranteed, nor, as a rule, can they be sent by post. Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed, even when the writers use a "nom de plume."

Complete and systematic indexes of the "C. & D." are presented with the last issues in June and December each year. Every subject dealt with week by week is included, and correspondents are advised to refer to these and the "C. & D. Diary" before asking the Editor for information, so as to save time.

## The Foundations of Union.

**SIR.**—As long ago as January 1914 you allowed me to suggest in these columns that the conference of Local Association delegates should clothe itself in trades-union garments, and I am happy to observe, as reported in your current issue, that a beginning has at last been made, and that, if the talking stage be only transcended, "patents" and infants' foods are to bear a reasonable profit, and the former are not to be "broken," and so on. By the way, nothing is said about the alternative to be put into motion should our excellent mandate be resisted, and I should like to ask how the necessary pressure is to be brought to bear upon the other interests—mainly the manufacturers—involved. Now the questions immediately raised are, ultimately and substantially, as between pharmacists and the public. Why, one wonders, was there no mention of that more important class of problems which concern the relationship of pharmacists and the State? Why, *i.e.*, was nothing done to push on a stage further the vexed and altogether unsettled questions revolving round the Insurance Act? Most urgent of all are these, because, mainly, abuses (like the wholesale operation of the Discounting Clause) are rapidly merging into precedents, and, unless combated soon, may set and stiffen to permanent usage. Observe also that relations with and successful negotiations as against the State are at once harder and easier to establish than with the general public—harder through the more imperative necessity for a sound case; easier, inasmuch as reasonable demands tend to quicker recognition. Now, the desirable amendments from the pharmacist's point of view to the Insurance Act are both reasonable and urgently necessary, but only, I would say, if presented from a comprehensive and therefore strong union, such as the conference of delegates might so easily afford. Courage is here, as nearly always, the best tactics, and it remains for the conference to take the bull by the horns, to develop and extend its union activities, to push to the front the questions needing early answer, and to institute some form of punitive alternative, for in no other way can grievances be redressed or reforms furthered.—I am, Sir, etc., Chester.

R. CECIL OWEN.

## Military Dispensers.

**SIR.**—Your note with reference to the discontent of pharmacists and qualified dispensers in the matter of military hospitals compels the remark that no recognition or justice will ever be extended to the qualified man until it is made absolutely illegal to employ unqualified dispensers in any military hospital. While the War Office sanctions the employment of the unqualified at double the salary which they would be able to command elsewhere, qualified dispensers and pharmacists may go on complaining until doomsday. I doubt whether 5 per cent. of the dispensers now serving in military hospitals have any qualification, not even excepting the Preliminary scholastic one. Many are young men who would be better employed serving their country in another capacity. Is it a matter for surprise, therefore, that the qualified obtains no recognition, rank, or khaki; is treated as a civil subordinate (along

with the cook); and that his remuneration is no better than the youngest unqualified man in the dispensary?

Faithfully yours,

A. Q. D. M. H. (167/67.)

SIR.—An Army Pharmaceutical Service, such as was outlined by Major Peck in his Conference address, ought not to remain a dream if our great Army is to attain its full value as a fighting machine. Medical men who have reached high positions in the Army by strenuous study and scientific work, and who know nothing of the practical side of pharmacy, are not competent to have charge of the supply and distribution of drugs and dressings, and, in the absence of men qualified to take charge of such work, the result must be mismanagement and wasteful extravagance. So far as the purchase of drugs by the War Office is concerned, there is, I am told, less fault to be found, that Department being in the hands of capable and careful pharmacists; but when it comes to the many duties in the hospitals, where the services of trained men are indispensable, there ought to be military pharmacists with definite commissioned rank for the effective supervision of what is one of the most important branches of Army medical service. I cannot conceive why pharmacists have not been placed in these positions, for even admitting, as we are all glad to do, that the Army pharmacist is serving his country with devotion and patriotism, he never can have, as a non-commissioned officer, that authority and responsibility to which his qualifications entitle him, and which his work demands. The War Office, as we may judge from Mr. Tennant's reply to Mr. Glyn-Jones last week, is still impudent, and much more spade-work requires to be done; but the official mind is amenable to persistent criticism, and now is the time to insist on reforms that are essential to the well-being of the Army and the interests of the nation. I hope, therefore, that Major Peck and others in a position to influence decisions in this matter will not relax their efforts till justice is done to the Army pharmacist.

M. P. S. (168/32.)

### Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

#### "As Necessary as the War Fund."

A Subcriber in Bombay (158/12), in remitting a British postal-order for 10s., renewal of *C. & D.* subscription, says: "This subscription is just as necessary as one to the War Fund."

#### A Surgical Dressing Hint.

"A new and original idea has just been introduced for use in dressing haemorrhoids or annular fistula and allied troubles. The great difficulty of securing a dressing in position while the patient is moving about may be very easily and comfortably overcome by roughly stitching the dressing on a strip of lint or Gamgee tissue. This should be about 10 inches in length, and should be drawn up between the legs into a comfortable position. Then the ends should be affixed by safety pin to an elastic belt similar to that used for the support of a sanitary towel—*e.g.*, having a small tag hanging in front and behind. Dressings thus applied will be found to give perfect satisfaction, while the undoing of a safety pin enables the readjustment to be accomplished with the minimum of inconvenience. This is a valuable help in the treatment of boils when an absorbent dressing is required."—L. H. H. (E69/65).

#### Liquid Paraffin.

"There is another side to the question discussed by R. E. W.: that liquid paraffin taken internally acts merely as a lubricant, and has no direct peristaltic action, has been mentioned by a practitioner whose name I forgot. I do not presume to offer an opinion as to the possible danger of an unlimited use of paraffin in this way, of which he warns us; but it is, I think, worth while to say that my own experience confirms his statement that repeated large doses may have an irritating effect on the bowels. It has certainly been so more than once in my own case, though I have never taken more than a tablespoonful at a time. And this is true both of the B.P. quality and of the cheaper American substitute, between which, indeed, there appears to be in this respect no appreciable difference. I can hardly suppose that my own experience has been singular, and I suggest that pharmacists should observe the action of the oil for themselves. The irritation I speak of is slight, but unmistakable."—C. C. (170/17).

#### What is a Berry?

"According to the dictionaries it is invariably, except when applied to the egg of a certain fish, a fruit of some tree or shrub; but in that case what is a clynol berry? I do not know of any clynol tree. Nevertheless, clynol berries, I am assured by a paragraph in this morning's paper, do exist, though 'local inquiry' shows that they are not very well known in England, and have the singular property of reducing fat at the rate, by estimation, of 30 grains for each berry taken. They are brown, small, pleasant, with a flavour resembling that of peppermint (possibly due to peppermint?), and 'any chemist can quickly procure them,' though we are not told where. Why this mystery? And why 'clynl'? 'Cly,' 'cly'?—the word has disagreeable associations. There is a line drawn under the paragraph referred to, beneath which are five words in capitals relating to Pilenta soap and marked 'Advt.' but we are left to guess whether or no the abbreviation has any reference to the clynol mystery. Still, one may, I think, fairly infer that this paragraph is one that will be resented by Mr. Kirkpatrick and the London County Pharmaceutical Association."—X. M. C. Y. (170/34).

#### Illegible Insurance Prescriptions.

"I have within the last few weeks been asked to read four or five prescriptions which had previously been differently read by equally competent men, and with regard to two of which at least no certain agreement was possible. In one case the difficulty was due to an abbreviation which might with equal plausibility be held to indicate either of two quite different drugs; in the others bad or careless writing was the cause. One of these is now before me, and I have for nearly an hour puzzled over it in vain. I read the names of the ingredients as did the friend who dispensed it, but I might not have done so but for a hint from him, and I can only guess at the directions. A third man to whom the thing was submitted gave it up, and the actual dispenser admits that he guessed at one item, and is not sure he was right. Obviously such cases ought not to occur, but that they do frequently occur is notorious. I am afraid there is no recognised machinery for dealing with them, but I suggest that every case of real illegibility ought to be reported to the Pharmaceutical Committee of the district, in the hope that some effectual means of abating the nuisance might be found. Probably the calling of the offender's attention to it by a responsible body would in most cases have some effect. It is perhaps possible that some of the mistakes and irregularities that have been charged upon panel chemists are partly explicable on this ground."—*Chemicus* (E31/55).

### Miscellaneous Inquiries.

We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas of them. When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

We do not as a rule repeat information which has been given in this section during the past twelve months, but give the reference to the issues in which the information may be found. If querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published price, usually 6d.

A. W. C. (171/44).—We have repeatedly stated that payment of salary in lieu of the annual holiday given by retail chemists to their assistants is not enforceable, unless there be a specific agreement to cover it. The annual holiday is conditional upon continued service, and when an assistant gives notice terminating his agreement before the date of his holiday, he is not entitled to the holiday nor to payment in respect of it.

J. A. B. (160/29).—The cause of the trouble you mention is self-consciousness. All that the person has to do is to concentrate his thoughts on the act, and, if possible, avoid the limited publicity that worries him. You may give him the following mixture:

|                       |     |     |          |
|-----------------------|-----|-----|----------|
| Syr. glycerophos. co. | ... | ... | 5j.      |
| Glycerin.             | ... | ... | 3ss.     |
| Liq. coccii           | ... | ... | 3ss.     |
| Aq. chloroform. ad    | ... | ... | 3vij.—M. |

A tablespoonful thrice daily.

The trouble is not unlike blushing, and goes as those afflicted get accustomed to awkward conditions.

Purgen (165/11) asks for suitable directions for a LIME-WATER LABEL. We suggest the following:

Dose: For infants, a dessertspoonful to a tablespoonful with each bottleful of milk that the baby takes. Double the quantity when the bowels are loose. For adults, half to two wineglassfuls with as much milk.

*G. A. B.* (173/16).—A DISPENSING INSURANCE DOCTOR must supply his patients with all the medicines and approved appliances that he prescribes for them. The capitation-fee covers bandages. Chemists on the panel should not supply bandages to insured persons on the doctor's list, unless at the doctor's expense. The Insurance Committee pays the doctor for the goods, and the doctor must supply.

*W. T. C.* (172/5) asks: "What is LIQUOR NITRITI in No. xvi. mixture of the Middlesex Formulary?" The formula for *Mist. Feb.*, Mx., is as follows:

|  |
|--|
| Liq. ammon. acet. (1 in 7) ... dr. ij. |
| Liq. nitrity ... ... dr. ij.           |
| Pot. nit. ... ... dr. j.               |
| Aq. ad. ... ... oz. viii.              |

Dose: Half an ounce.

[We presume this is a preparation such as the sweet spirit of nitre substitute given in "Pharmaceutical Formulas," viz.:

|                                     |
|-------------------------------------|
| Sodium nitrite ... ... 2 dr.        |
| Old sweet spirit of nitre ... 2 oz. |
| Glycerin ... ... 2 oz.              |
| Water ... ... 16 oz.                |

Mix and dissolve.

Preparations similar to this are offered by manufacturers. It should not be confounded with liquor trinitrini.]

*H. W. D.* (162/16).—RENOVATING EBONY.—The faded appearance of the back of an ebony brush can be improved by treating with a solution of 3 oz. of spirit black in 1 gal. of French polish—applied as a French polish. The older method is by the use of two solutions, consisting (1) of galls (14 oz.), logwood ( $3\frac{1}{2}$  oz.), green vitriol ( $1\frac{1}{2}$  oz.), and verdigris ( $1\frac{1}{2}$  oz.); and (2) iron filings ( $3\frac{1}{2}$  oz.), vinegar ( $1\frac{1}{2}$  pint).

*W. E. B.* (146/21).—BOOKS ON COFFEE.—Lock's "Coffee; its Cultivation and Commerce of all Countries" (12s. 6d., Spon, 1888); Arnold's "Coffee-cultivation" (10s. 6d., Whittingham, 1886); Thurber's "Coffee from Plantation to Cup" (16s., New York, 1881); Walsh's "Coffee: Its History, Classification, and Description" (Philadelphia, 1894); Keable's "Coffee from Grower to Consumer" (1s. 6d., Pitman, 1910). Information can also be obtained from Allen's "Commercial Organic Analysis," Vol. VI., on the analysis of coffee; Tibble's "Foods" gives an excellent summary of the matter on pp. 779-819. Thorpe's "Dictionary of Applied Chemistry," Vol. II. (largely analytical); Blyth's "Foods" deals with coffee microscopically and chemically in about twenty pages. The "Encyclopaedia Britannica," Vol. VI., devotes four pages to coffee.

*W. J. H.* (156/39).—TREATING CANVAS.—Your requirements are somewhat difficult to meet. Durability can be imparted to canvas by treating with cutch, but most of the processes for rendering canvas rainproof involve the blocking-up of the air-spaces. In the circumstances, we suggest that the canvas be first soaked for half an hour in a decoction of cutch (1 lb. to 6 gals.), and dried, then sprayed evenly with a solution of paraffin wax in mineral naphtha. The other method of waterproofing with paraffin wax is to pass the canvas and a web saturated with the naphtha solution together beneath metal or wooden rollers.

*F. C.* (162/1).—DRY-SHAMPOO LIQUID.—The following are two formulæ with a soap basis, as requested:

| I.                           | II.                             |
|------------------------------|---------------------------------|
| Soap spirit ... 250 c.e.     | Soap spirit ... 40 c.e.         |
| Spirit ... 100 c.e.          | Potassium carbonate ... 5 grams |
| Eau de Cologne ... 50 c.e.   | Rose-water ... 810 c.e.         |
| Acetic ether ... 25 c.c.     | Quillaia tincture ... 40 c.e.   |
| Glycerin ... 50 c.e.         | Ammonia solution 5 c.e.         |
| Ammonia solution 5 c.e.      | Rum ... 100 c.e.                |
| Terpinol ... 20m             |                                 |
| Bergamot oil ... 40m         |                                 |
| Distilled water ... 545 c.e. |                                 |

Stand eight days, then filter bright by the aid of kaolin.

The *Soap spirit* is made as follows:

|                               |                   |
|-------------------------------|-------------------|
| Olive oil ... ... ...         | 3 oz. (by weight) |
| Caustic potash (90-per-cent.) | 260 grains        |
| Spirit ... ... ...            | 17 oz.            |
| Water ... ... ...             | a sufficiency     |

Dissolve the potash in 3 oz. of water, and mix with the oil and  $4\frac{1}{2}$  oz. of the spirit in a water-bath, heating until saponification is complete and a sample of the product makes a clear mixture with water and spirit. Then add the rest of the alcohol, and after two or three days filter. The *Quillaia tincture* is made by percolating 20 parts of coarsely powdered quillaia-bark with a mixture of 20 parts of spirit and 80 parts of water.

*R. M.* (154/20).—UNG. SULPH. Co.—See *C. & D.*, April 17, p. 56. You can always save time by consulting "Pharmaceutical Formulas" for such preparations.

*R. H.* (E162/51).—INDEXING STOCK.—The best plan that we know of is that described in the Liverpool Chemists' Price-list, which list is provided with columns for reference numbers for warehouse and shop, the suggestions given in the preface being as follows:

Assuming the shop to be more or less square, and the window, say, facing the north, there will be east, west, and south sides to be described. Commence at the top shelf (continuous or divided), and number it 1; continue the numbering consecutively up to 200 or 300, as required, completely round the shop. If there are five lengths of shelving and five divisions, this will give Nos. 1 to 25, and, say, drawers underneath, 26 to 100. In the index, with 1 to 25 shelves west side of shop: 26 to 100 drawers west side of shop, etc.

Now, if it is required to find *Gentianæ Tinctura Comp.*, and it is marked in the list "21," a reference to the index will show the part of the shop in which such number occurs. The same system may be applied to the warehouse.

The index referred to is in the front of the Price-list, and the following alternative plan is also given:

Divide the fixtures into imaginary or marked divisions from top to bottom, numbered 1, 2, 3, etc., as required, each row of drawers or shelves numbered 1, 2, 3, etc. D signifies "Drawers"; S signifies "Shelves"; C signifies "Cupboard"; b signifies "behind."

The same plan can be used for warehouses; where more rooms than one are used, they are to be distinguished by capital letters A, B, C, etc.

Examples: The first figure indicates the division: the second, the row:

| Warehouse | Shop. |                       |
|-----------|-------|-----------------------|
| A S 1     | 1 S 2 | Gentianæ tinct. comp. |
| B D 2     | 2 D 3 | " rad.                |
| C S 1     | C S 1 | Strychnina            |
| C S b     | C S b | " liq.                |
| C         | —     | Sapo mollis com.      |

In both cases a list of proprietaries is kept in a separate book. You will find a good article on stockkeeping in our "Opening a Pharmacy."

*J. K.* (151/32).—DISTINGUISHING COTTON FROM WOOL.—See *C. & D.*, April 10, p. 60.

*Derwent* (149/48).—SCENTLESS FLOWERS are artificially perfumed by spraying them with solutions of essential oils in spirit, or by the use of concentrated flower extracts in a spirituous medium.

*Peter* (151/38).—Indiarubber can only be permanently coloured by incorporating the colouring-matter with the rubber in a process of manufacture. Some measure of success in treating manufactured rubber might be attained if you could obtain an aniline dye soluble in a rubber-solvent.

*G. C. (Florence)* (153/37).—SELF-LUMINOUS PAINT for watch-hands and compasses.—This consists of a body such as barium sulphide or zinc sulphide "activated" by radium. It is necessarily very expensive to experiment with radium-compounds, and we recommend you to refer to Mr. Glew's advertisement of radium luminous paint. Mr. Glew has spent many years in making this preparation, and has obtained success.

## Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," July 15, 1865.

"The Chemist and Druggist" at the Dublin Exhibition.—I By Harry Napier Draper, Ph.D., F.C.S.

I propose, in this and in succeeding articles, to give an account of that part of the Dublin Exhibition which is of interest to the readers of THE CHEMIST AND DRUGGIST. To those among them who may not have the opportunity of visiting Dublin this year, I hope that my report may in some measure stand instead of personal inspection, for I shall endeavour to make it a practical guide to those who can spare time to cross the Irish Channel and see for themselves how our Hibernian neighbours manage an undertaking of such magnitude as an International Show. It may, perhaps, not be out of place to say here, that if Englishmen—and Londoners in particular—were to visit Ireland more, and judge of Irishmen more by personal experience and less through trenchant newspaper criticism, the heaviest wrong under which that much-maligned country labours would soon cease to exist.

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Ginger, English Ground, 1 cwt. @ 46/- cwt.; 7 lbs. @ 7d lb.

Gingerine, Extra, 5 lbs. @ 13/- lb.; 1 lb. @ 13/6.

Glycerin, Opt. D.D., 1,260 P.B., 1 cwt. @ 106/- cwt.; 56 lbs. @ 103/- cwt.; 12 lbs. @ 1/21 lb.

\*Glycerin. Acid. Boric, P.B., 6 lbs. @ 11/1 lb.

\* " Acid. Carbolic, P.B., 6 lbs. @ 1/8 lb.

\* " Acid. Tannic, P.B., 6 lbs. @ 2/3 lb.

\* " Belladon, P.C.P., 6 lbs. @ 3/3 lb.; 1 lb. @ 3/9 lb.

\*Glycerin. Boracis, P.B., 6 lbs. @ 1/4 lb.

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Guaiacol, pure, 1 lb. @ 22/- lb.

Gum Acacia sorts, 3 cwt. @ 45/- cwt.; 1 cwt. @ 49/- cwt.; 7 lbs. @ 7½d lb.; Englisb Ground Powder, No. 1, 1 cwt. @ 115/- cwt.; 7 lbs. @ 1/21 lb.; No. 2, 1 cwt. @ 90/- cwt.; 7 lbs. @ 11d lb.

Gum Benzoin, Sumatra, 84 lbs. @ 1/10 lb.; 7 lbs. @ 2½ lb.

Gum Catechu Nig., Englisb Ground, 1 cwt. @ 75/- cwt.; 14 lbs. @ 8½d lb.

Gum Guaiaci, 1 cwt. @ 1/3 lb.; 28 lbs. @ 1/5 lb.

Gum Juniper, 14 lbs. @ 1/- lb.

Gum Thus Elect., 2½ cwt. @ 34/- cwt.; 28 lbs. @ 42/3 cwt.

Gum Tragac. Elect., Englisb Ground, 7 lbs. @ 7/10 lb.; 1 lb. @ 8/3 lb.

**H**edging (Frotting Ess.), 5 lbs. @ 1/3 lb.; Heliotropine, 1 lb. @ 11/- lb.

Helleboræ, White, Powder (Foreign Ground), 1 cwt. @ 45/- cwt.

Hexamethylenetetramine, 7 lbs. @ 6/6 lb.; 1 lb. @ 6/10 lb.

Honey, Pale Set, Jamaica, 3½ cwt. @ 37/- cwt.; 28 lbs. @ 50/- cwt.; Californian, 1 cwt. @ 52/6 cwt.; 7 lbs. @ 8d. lb.

Hydrogum, P.B., 10 lbs. @ 3/11 lb.; 1 lb. @ 4/2 lb.; Ammon., 28 lbs. @ 1/11 lb.; C.

Creta, 28 lbs. @ 1/3 lb.; Iodid. Rub., 28 lbs. @ 13/9 lb.; Oxid. Rub., 28 lbs. @ 6/11 lb.;

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\*Caryoph. Conc., 1 to 7, 6 lbs. @ 1/2 lb.

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\*Seneca Conc., 1 to 7, 6 lbs. @ 2/5 lb.

\*Valerian Conc., 1 to 7, 6 lbs. @ 1/6 lb.

**M**ethyl Ammon. chemical equivalent: Ammon. Ichthysulphonas. B.P. Codex, 7 lbs. @ 7/- lb.; 1 lb. @ 7/6 lb.

\*Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/7 lb.

\*Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/6 lb.

\*Buchu Conc., 1 to 7, 6 lbs. @ 2/5 lb.

\*Calumba Conc., 1 to 7, 6 lbs. @ 1/1 lb.

\*Caryoph. Conc., 1 to 7, 6 lbs. @ 1/2 lb.

\*Cascariilla Conc., 1 to 7, 6 lbs. @ 1/6 lb.

\*Cinchona Acid, 1 to 7, 6 lbs. @ 1/9 lb.

\*Gentiana Co., 1 to 7, 6 lbs. @ 1/3 lb.

\*Quassia Conc., 1 to 7, 6 lbs. @ 11d. lb.

\*Rhei Conc., 1 to 7, 6 lbs. @ 1/8 lb.

\*Rosa Acid. Conc., 1 to 7, 6 lbs. @ 2/6 lb.

\*Seneca Conc., 1 to 7, 6 lbs. @ 2/5 lb.

\*Valerian Conc., 1 to 7, 6 lbs. @ 1/6 lb.

**N**itrophenol, 1 lb. @ 1/1 lb.

# MEADE-KING, ROBINSON & CO.

LIVERPOOL

MANCHESTER

WHITE  
YELLOW

## PETROLEUM JELLY

AMBER  
RUBY RED

PHARMACEUTICAL AND VETERINARY

GOLD MEDAL, Cape Town International Exhibition, 1904-5.

### "LIQ. SANTAL. FLAV. c. BUCHU ET CUBEBA"

(HEWLETT'S).

#### THE ORIGINAL PREPARATION



Many pharmacists have assured us that even when the name "HEWLETT'S" is not appended to the above title they invariably dispense HEWLETT'S preparation, as they know from experience that it is the best, that it keeps indefinitely, and universally gives satisfaction, whilst imitation preparations vary so considerably, not only from the original but from each other, that patients notice the difference, and complain.

Price 11s. per lb., packed, for dispensing only, in 10, 22, 40, and 90 oz. Bottles.

INTRODUCED AND PREPARED ONLY BY

**C. J. HEWLETT & SON, Ltd., Wholesale and Export Druggists**  
35 TO 42 CHARLOTTE STREET, LONDON, E.C.

We make a specialty of the manufacture of

## GLYCEROPHOS- PHATE OF SODIUM

IN FORM OF PURE CRYSTALS.  
ALSO ANHYDROUS POWDER.

WE ALSO MANUFACTURE  
GLYCEROPHOSPHATE  
OF CALCIUM, PURE  
(Free from added acid or other impurities)

GLYCEROPHOSPHATE  
OF POTASSIUM 75%  
GLYCEROPHOSPHATE  
OF SODIUM 75%

**Monsanto Chemical Works,**  
ST. LOUIS, Mo., U.S.A.

Manufacturers also of Phenacetin, Phenolphthalein, Vanillin, Coumarin and Saccharin.

#### MANUFACTURERS OF

## VANILLIN

TERPINHYDRATE,  
All kinds.

HELIOTROPINE, TERPINEOL,  
ISO-EUGENOL, THYMOL,  
OXIDISED TURPENTINE OIL,  
TERPINOL, Etc. Etc.

Distillers of  
Oils, Clove, Pimento (Allspice)  
Patchouli, Amyris, Santal E. I.

#### Verona Chemical Co.,

NORTH NEWARK, N.J., U.S.A.

Cable Address: Keystar Newark.

A B.C. 5th Edition.

# RAIMES'

Inf. Gent. Co. Conc.

Pulv. Glycyrrh. Co.

Pulv. Tragacanth. Elect.

Pulv. Rhei E.I.

Insect Powder, from all closed flowers

Tinctures prepared with finest English grain spirit

HAVE AN  
ESTABLISHED  
AND  
WELL-EARNED  
REPUTATION.

*Samples and close quotations for the above, also for any  
Standard Drugs and Preparations, on application to—*

**RAIMES & CO., Wholesale  
Druggists, YORK.**

QUALITY THE FIRST CONSIDERATION.

STATE QUANTITY REQUIRED.

Place your Winter Contract now

FOR

**MALT & OIL, COD LIVER OIL,  
MALT EXTRACT**

AT NORMAL  
PRICES.

AT NORMAL  
PRICES.

**Finest Scotch Malt, Finest Norwegian Oil, Finest English Bottles and Jars.**

**SPUN OINTMENTS**

(Regd. Trade Mark.) **And CREAMS of every kind for HOME and EXPORT trade.**

Spun Ointments are the production of Shen Works only.

impalpable and absolutely uniform,  
are now the standard of quality.

All B.P. Ointments are now spun.

**ROBERT BLACKIE,**

WHOLESALE AND EXPORT  
MANUFACTURING CHEMIST,

*Head Office, Mills and Laboratory—*

**SHEN WORKS, Tower Bridge Road, LONDON, S.E.**

# GRYPE WATER

REGISTERED TRADE MARK  
No. 100.

The Remedy always in Popular Demand.

## A BEAUTIFUL SHOWCARD

WILL BE SENT  
WITH ORDERS FOR

1 Gross of Bottles.

Minimum Retail Protected Price,

10½d. per bottle.

Carriage Paid.

1 Gross Bottles,  
99/- Net Cash.

The words **GRYPE WATER** have been pronounced by the High Court of Justice to be a Valid Trade Mark, the exclusive property of

**W. WOODWARD, Ltd., NOTTINGHAM**



# THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, JULY 24, 1915

## TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers), and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

**PROVIDED the MONEY IS TELEGRAPHED**

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus Cannon London." (Three words counted as two.)

## SUMMER ISSUE, July 31, 1915.

Owing to the extra preparatory work necessary in connection with the production of this Special Issue, it must be put to press earlier than an ordinary issue. Intending advertisers in the SUMMER ISSUE SUPPLEMENT OF NEXT WEEK will please note, therefore, that the Publisher cannot guarantee the insertion of any advertisement received after

**2 P.M. ON THURSDAY, JULY 29.**

Any announcement that comes to hand after the time named will be inserted in the "Chemist & Druggist Supplement" of August 7.

## CHEMISTS' TRANSFERS.

**Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.**

Telephone Number: City 2283.

**May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.**

1.—**BLACKHEATH** (Within Easy Distance of).—Sacrifice for immediate sale through ill-health of vendor; good-class modern gift Retail and Dispensing; returns between £900 and £1,000; *net profit about £245*; rent £60; handsome shop and good stock; out £680 required; scope for development.

2.—**HOME COUNTY**.—Good-class Retail, Dispensing, and Photographic; returns about £1,000 (present rate), at good prices, and capable of increase; *net profit £279*; rent £28, including small sidings and well-appointed shop; valuation terms unentered.

3.—**KENSINGTON** (Near).—Established Business, Retail and dispensing; held by vendor upwards of 25 years; returns £1,300, yielding a clear income of £400; attractive shop, well fitted and decked; price about £1,000.

4.—**LONDON, S.W.**.—Good middle-class Business, Retail and Dispensing, in best position for extending trade; an introduction given to purchaser; vendor retiring through ill-health; returns £1,200; *excellent profits*; terms, goodwill and lease £100, stock and fixtures at valuation.

5.—**KENT**.—Ready-money Business; splendid opening for Dentistry and Optics; returns £650; *net profit £200*; no immediate position; price £250.

6.—**SURREY** (Attractive Locality).—Good-class Retail and Dispensing; no immediate opposition; steadily increasing returns, now out £2,000, at good prices; goodwill £125, stock and fixtures at fair valuation.

7.—**SOUTH COAST** (Near the Solent).—Unopposed Business; returns under manager between £800 and £850, increasing; house has 7 rooms, private entrance; no reasonable offer refused.

8.—**KENT** (Unopposed).—Good-class Family trade, with General Country Retail; old-established; returns average well over £900; *net profit £200*; vendor estimates stock and fixtures at £425; price, to include goodwill and lease, £500.

9.—**EASTERN COUNTY**.—Active Partner wanted, with small capital at command, for half-share in old-established Business with Branch; *net profit about £500*; good scope for increasing trade with energy.

10.—**HANTS**.—High-class Pharmacy, Dispensing and Retail, situated in a fashionable and thriving town of importance; returns £2,500; large shop, fitted throughout in best mahogany; illness cause of sale; terms, valuation of stock and fixtures.

11.—**YORKS**.—Old-established Business, chiefly ready money; returns £756, increasing; price £450.

12.—**NORTH OF ENGLAND** (Market Town).—Ready-money Business; returns about £800, with £313 *net profit*; small residence; rent £19 10s.; price £375, about the value of stock and fixtures.

13.—**MIDLANDS**.—Light Retail, Dispensing, and Photographic; very little N.H.I.; splendid opening for Optics and Dentistry; returns £1,052; *net profit £250*; rent £35; no serious opposition, about the value of stock and fixtures required.

14.—**GUILDFORD** (Near).—Family Retail and Dispensing Business; village in midst of glorious country; returns £450, steadily increasing; rent (net) £15; good residence, with garden and outbuildings; price £300, or near offer.

## VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.**, can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss**.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

**ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.**

# BRETT & CO.

Licensed Valuers,

73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester."

Telephone 1934.

F. J. BRETT, M.P.S.,

GIVES PERSONAL ATTENTION TO ALL VALUATIONS.  
NO CHARGE TO BUYERS.

AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

## STOCKTAKING SPECIALISTS to the Entire DRUG TRADE.

DERBY.—In consequence of the decease of Mr. E. Machon we are instructed to Sell his Retail; returning £600; has done much more, and could do again by personal attention; Dentistry connection optional; "Comfortine" in addition has a large local reputation and sale.

£1,500 returns.—LANCASHIRE.—General Retail, with some Wholesale; increasing and plenty of scope for further development; price £500.

£1,400 returns.—FASHIONABLE INLAND YORKSHIRE WATERING-PLACE.—Splendid season now on; fine position.

£1,200 returns.—BORDERS OF LANCASHIRE.—Good-class Light and Family Retail, with fair Dispensing; good shop and house; net profit £300; price £550.

£1,360 returns.—WITHIN AN HOUR OF TOWN.—Light Retail, producing a net profit of over £500; this can be proved; ill-health sole cause of sale; price £775.

SURREY.—Nice quiet Retail; suit elderly man wanting a quiet life, at same time plenty of scope for energetic man; returning £10 a week; nice house and garden, at small rent; price £300.

£550 returns.—Light Retail Dispensing in Midland health resort; good opening for side-lines; price £200.

£1,400 returns.—NORTH MIDLANDS.—Prosperous market town; net profit approaches £500; price £800; good shop and house; moderate rent; vendor is owner, and will grant lease.

We have cash Buyers for businesses from £500 to £5,000.

Valuations conducted upon the shortest notice at moderate fees.

# BERDOE & FISH,

VALUERS & TRANSFER AGENTS,

35 Jewry Street, Fenchurch Street, City.

Telephone: 1809 CENTRAL.

NO CHARGE TO PURCHASERS.

1.—MIDDLESEX (Rising Locality).—Good-class Retail and Dispensing Business, in best position; returns over £1,500; net profit £400; modern premises, fitted in best style; price about £950.

2.—KENT (Delightful Locality).—Good-class Country Retail, unopposed; returns £950; no Optics or Photo; large shop; excellent stock; good house; low rent; price £500; good introduction.

3.—HOME COUNTY (35 Miles Out).—Light Retail and Dispensing; returns £1,250; scope for doing £2,000; good residence; handsomely fitted, well stocked; price £1,000.

4.—EASTERN COUNTY.—Good-class Business in large town; neglected; returns over £800; plenty of scope; corner position; low rent; price £350; £100 can remain.

5.—BANKS OF THAMES.—Good-class Retail and Dispensing; returns £1,200; net profit £300; best position; fully stocked; price £750, or £100 and valuation.

6.—SURREY.—Good-class Retail, Dispensing, and Photographic, in splendid position; returns about £1,600; has done £2,000; owner retiring; price £600 cash.

7.—HERTFORDSHIRE (Market Town).—Good-class Light Family Retail, increasing; returns £950; net profit £300; fine modern Pharmacy, well stocked; easy hours; price £750.

8.—LONDON, W.—Light Retail and Dispensing; returns under manager £1,100; plenty of scope; price only £450.

9.—LONDON, S.E.—Light Suburban Retail; returns £1,500, increasing; net profit £400; price £850, or near offer.

10.—NORTH LONDON.—Cash Retail; returns £1,036; net profit £350; books kept; modern Pharmacy, well stocked; price £800.

## STOCKTAKINGS.

We undertake stocktakings on a very low-scale of commission or an agreed fixed fee, and also price out Chemists' own stocktakings. Please apply for our terms.

Businesses Wanted. Buyers Waiting.

# PARSON C. BAKER

1 MOUNTFIELD ROAD, CHURCH END, FINCHLEY, N.

50 years' experience in every branch of business.

Recommended by— BRITISH DRUG HOUSES, LTD.

MEGGESON & CO., LTD.

Tel. No. Finchley 812. BARCLAY & SON, LTD.

All correspondence should be addressed as above.

And at 174 VICTORIA ST., S.W., Ph C. Tel. No. Victoria 27.

BEST position centre prosperous town, S. Wales; returns £1,640; good-class all-round business; vendor retiring; price £750; recommended; part cash can remain.

CENTRE of town, lovely touring district; good General, Retail, Agricultural, and Proprietaries; returns £2,850; good, profitable; price, valuation and small goodwill.

UNOPPOSED; centre popular, rapidly increasing town, South Coast; opened 3 years; returns £575, £657, £828; good-class, double-fronted corner shop, well fitted; good house; price £400, or offer.

OLD-ESTABLISHED Country General Retail; returns average £2,300; same hands over 30 years; vendor retiring; 30 miles from London; price, valuation and small goodwill.

Others town and country; inquiries invited, stating requirements. Valuations personally conducted, town or country; terms moderate.

# THOS. TOMLINSON & SON

CHEMISTS' VALUERS, TRANSFER AGENTS,  
AND EXPERT STOCKTAKERS,

45a MARKET STREET, MANCHESTER.

ESTABLISHED OVER HALF A CENTURY.

Telegraphic Address: "Tomtom."

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

## BUSINESSES FOR DISPOSAL.

3s 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 6d.

Private-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

BLACK COUNTRY.—For immediate Disposal, an unusually lucrative Business; profits year ended June 30, £730 net; price £1,600; heavy stock. Full particulars will be given to bona-fide applicants. Address, "Midlands," c/o Southall Bros. & Barclay, Ltd., Transfer and Valuation Department, Birmingham.

BOLTON.—Drug-store Business to be given away; established 25 years; excellent opportunity for Pharmacist; good house and shop; low rent; fixtures and stock £80. Apply, 49 St. Helen's Road, Bolton, or write, T. Stevenson, 25 Upper Aughton Road, Southport.

CHESHIRE.—Pharmacist's Business in pleasant part of county; returns £800-£900; convenient house on lease; rent of entire premises £50. Apply "Radix," c/o Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

LANCASHIRE.—Profitable Business for Sale; established many years; best stand in a prosperous town; population 16,000; only three Chemists; returns under Assistant £11 per week; modern shop; convenient house; rent £40; vendor is getting on in years; price £220. "Notwen" (166/34), Office of this Paper.

LONDON Suburb (in Main Thoroughfare).—Cash, Photo, and Optical Business for Sale; well fitted and stocked; large double window; good house, stable and cellar; rent £40, on lease; returns £1,050; profits £450; owner going abroad; price £450. Address, "Colonies" (166/30), Office of this Paper.

**L**ONDON Suburb, S.W.—Advertiser, wishing to join the Colours, offers old-established Business for immediate Disposal; Pharmacy well stocked and fitted; on main road; long lease; electric light and gas; 1914 returns £1,450; several valuable Proprietaries; no reasonable offer refused, but no give-away prices entertained. Apply, "Omar" (23/8), Office of this Paper.

**L**ONDON (Western Suburb).—Profitable Light Cash Retail, with Prescribing and own Specialities; good main road position; turnover £1,250; small panel; net income £350, after paying Assistant; attractive shop; well stocked; all in splendid order; owing to illness will accept bare valuation, about £550. "T. T." (171/8), Office of this Paper.

**M**ALVERN HILLS.—Death vacancy; good-class Retail and Dispensing Business, in main thoroughfare; returns £800, formerly £2,000; the premises include a splendid house of 12 rooms, with private entrance; handsome double-fronted shop; price about £600. Apply, 175/45, Office of this Paper.

**M**ANCHESTER.—Genuine Business; good position; thickly populated; plenty of scope for energetic business man; good profits; cash trade; low rent; good-sized shop; at present under management; good reason for selling; price, valuation only; fixtures cost nearly £100; will take £50 for them and stock, about £100, at valuation. 168/11, Office of this Paper.

**M**ANCHESTER.—In one of the best suburbs, a large, elegantly fitted Shop with every convenience for business, and a good house; plenty of scope to develop; value of stock and fittings about £450; no reasonable offer will be refused; good reasons for disposal. Apply, 171/1, Office of this Paper.

**M**IDLANDS.—Old-established light Retail and Dispensing business, occupying commanding position in residential town, giving assured income, which can be considerably increased; owner, for domestic reasons, is prepared to make any sacrifice to quick purchaser; come and view and make an offer. "Althea" (169/30), Office of this Paper.

**N**ORTH WALES.—For Sale as a going concern, old-established business of Chemist and Druggist in Wrexham; shop splendidly situated in main thoroughfare; modern fittings; electric light; good stock, which will be reduced if required; must be sold immediately; no reasonable offer refused. For particulars apply, A. Moffatt, Accountant, 20 Regent Street, Wrexham.

**S**OUTH WALES.—A nice compact Business for Sale; doing £800 a year; main road; long lease; large working town. Apply, 65/31, Office of this Paper.

**W**ESTERN Suburb.—Retail and Dispensing business for disposal; double-fronted shop; handsomely fitted; well-stocked; good middle-class trade; genuine reason for disposal; inspection invited. "Veterinary" (169/21), Office of this Paper.

**A** BARGAIN.—£200 will secure a well-stocked Drug Stores; good situation; doing £500 under unqualified management; less cause of disposal; could be considerably increased by a qualified man; big scope for N.H.I.; good house and garden; in E. district. Write, 171/15, Office of this Paper.

**N**ICE little compact Business in Lancashire; easily worked and very profitable; average turnover nearly £20 weekly, at about half profits; failing health sole cause of disposal; rent very moderate on lease; good position; well established and site sound; first reasonable cash offer accepted. Apply, 166/36, Office of this Paper.

**C**HEMIST'S Business for Sale as a going concern; 30 years in same premises; pretty suburb of Liverpool; fine commanding emisies; Prescription books for whole trading. Apply, Parkin S.oth, Accountant to the Association of Manufacturing Chemists, d. 2 Bixteth Street, Liverpool.

**O**R Sale, old-established good going concern; Cardiff, main thoroughfare, returns £1,400; well-fitted, double-fronted shop, electric light; Wine Licence; good house and garden; owner listed; month's trial for prospective purchaser. 167/16, Office of this Paper.

**O**R Sale, Lincoln, Drug Store, well stocked and nicely fitted; corner position; no immediate opposition; good opening for N.H.I.; low rent; old-established; only reason for selling, ill-health; no accommodation over shop; low price for quick sale. 163/18, Office of this Paper.

**O**R Sale, in densely populated district, corner shop, well fitted and stocked; rent £32 and rates; good house; reason for selling, proprietor engaged in the Army; a good opportunity for one seeking cheap, reliable business. Apply, Sunderland, 1 Melville Street, Lincoln.

**F**OR Disposal, profitable sound Chemist's Business; good corner position on main thoroughfare of large Yorkshire city; working and middle class district; lease; lock-up shop; upper premises let off; returns about £750; old-established Light Retail Business with N.H.I. Dispensing and Photographic; price valuation, about £450. 168/25, Office of this Paper.

**F**OR immediate Disposal, through grave reasons, flourishing Cash Business in East End; over 40 per cent. gross profits under unqualified management; on lease; rent £30; may increase with N.H.D., Photographic, and Poisons; price £300 to first offer; few Patents sold. "Statim," 50 South Park Parade, Seven Kings.

**G**OOD little Business; easily do £10, has done more; sickness and lack of attention cause of sale; in full working order; complete stock; good house, with bath, small garden; outskirts of big Lancs town; rent £28 only; golden opportunity for qualified man; £50 down and £50 by instalments. "Chemist," 11 Charles Street, Pendleton, Lancs.

**H**OMOEOPATHIC Chemist, established 25 years, now closed; rent £45; goodwill, fixtures, fittings at low valuation. William Weston, Auctioneer, 10 Sutherland Avenue, Paddington, W.

**O**LD-ESTABLISHED Business of Chemist and Wine and Spirit Dealer for Sale; large town, S. Wales; capital required £1,000, or valuation. Apply, 166/27, Office of this Paper.

**O**LD-ESTABLISHED Business for Disposal; situated in the best position of small market town near South Coast; owner retiring; commanding premises, with good house attached on long lease at low rent; held by vendor and father before for over 60 years; price £1,400. Applicants with necessary capital can have further particulars by furnishing references to "Phenacetin" (169/12), Office of this Paper.

**T**RAVELLER: Can you recommend me a genuine going Pharmacy? Yes. Write to "Honest," and I am certain his Business will suit you splendidly; it is a chance of a lifetime; Mr. Honest wants quick cash buyer, but why not run down and see him? "Honest" (169/8), Office of this Paper.

**£70** or near offer will secure country Drug Stores; must sell before winter. Qualified man used to Agricultural trade and N.H.I. Dispensing would do well; large house, low rent; no Chemist near. Fullest particulars given. "Rhei" (169/10), Office of this Paper.

**£250.**—Old-established Family Business for immediate Sale, in large village; several other adjoining; no opposition within 8 miles; N.H.I. could be done; 3 doctors; stock well worth money; gave £400 for same two years ago; private reasons force sale; bargain. A. R. Mulligan, Pharmacy, Market Deeping, Lincs.

## BUSINESSES WANTED.

**W**ANTED, a small genuine Drug Store; healthy district; with garden; town or country. 166/28, Office of this Paper.

## FOR SALE.

**F**OR Sale, Shop-rounds and contents, Glass-fronted Connters, Cases, and other stock; all in good order. M. Orridge, Drug Exchange, Farncombe, Godalming.

**F**OR Sale (to be cleared early in September), Fixtures, Trade Fittings, etc., and part stock of a country Pharmacy; also various Photographic Appliances, Mounts, Opaline Goods, etc.; can be seen any time by appointment. Apply, T. H. Stokoe, Clare, Suffolk.

**N**ATIONAL Cash Register; good second-hand machine; tape printer and total adder; keys 4d. to 30s.; made about 1913. Write, H. Cooke, 14 York Road, Battersea, S.W.

**S**EVERAL Tabulating Machines, in good working condition, for Disposal. For particulars apply, Boake, Roberts & Co., Stratford, E.

## TO LET.

OLD-ESTABLISHED Chemist's double-fronted corner shop; present tenant's 15 years' lease expires Christmas; good business done for many years, also N.H.I.; rent low; no near opposition; working-class locality; cash trade; shop now closed by tenant, removed to a new locality, Westrop Street, 65 Branston Road, Burton-on-Trent.

TO Let, an old-established Chemist's and Druggist's Business (the owner having just died) in a village where there is no other and the nearest 7 miles; possession at once. Apply, in the first instance, to "W. H." 176 Holgate Road, York.

## AGENCIES.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

CAPE PROVINCE.—Advertiser is open to negotiate with Manufacturers of Proprietaries and Patent Medicines for sole local Agency; well-established; first-class references; could undertake local advertising to push sales. Write to Geo. R. Thwaits, Donkin Street, Beaufort West, C.C.

AGENTS, on commission only, wanted all over the country for an absolutely new Medicinal Soap, to call on Chemists and Druggists. Apply, 148/32, Office of this Paper.

ITALIAN Import and Export Traders (well known) desire to Represent in Italy first-class English firms, preferably for Textile Goods and Chemical Products. Write, Box 937, Willing's Advertising Agency, 125 Strand, London, W.C.

TRAVELLERS offered excellent Agency for Sanitary article universally wanted; expenses and commission. State towns covered, Campion, 58 Hatton Garden.

## SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

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## RETAIL.

BALHAM.—A reliable Assistant required; outdoors; good salary to a desirable man; Photographic knowledge necessary; qualification not so essential as good Dispensing and general knowledge; abstainer preferred. Apply, by letter, Cooper, Central Pharmacy, Balham, London, S.W.

BILSTON.—Permanent qualified managing Assistant; easy and comfortable post; elderly man not objected to; excellent wages to suitable applicant. Shelley's, Market Place, Bilston.

BIRMINGHAM.—Wanted, a smart Assistant; must be good Counterman; knowledge of Photography useful; good Dispenser; working hours about 56 per week; good salary to the right man seeking a permanency; please reply with full particulars, state when disengaged. "Izon," 86 High Street, Aston, Birmingham.

BIRMINGHAM.—Firm of Chemists require lady Pricer for N.H.I. Scrips Department; permanency to suitable applicant. "Pricer" (168/220), Office of this Paper.

BOURNEMOUTH.—G. E. Bridge & Co., Ltd., require an unqualified Junior Assistant. Apply, with full particulars, to W. E. Curtis, 128 Old Christchurch Road.

BRADFORD.—Wanted, smart unqualified Assistant, quick and accurate Dispenser; outdoors. Apply, stating age, experience, and salary required, to John Day & Sons, Laisterdyke, Bradford.

BRECON.—Junior (unqualified) or Improver wanted; easy hours and particularly healthy district. Apply, stating age, height, experience, references, and salary required (indoors), to Walter Gwillim, Pharmacist, Brecon.

BRIGHTON.—Qualified or experienced unqualified Assistant wanted for high-class Retail and Dispensing business; indoors. State usual particulars, enclosing photo, to S. J. Weston & Co., 24 Church Road, Hove.

BRISTOL.—Manager, qualified, wanted for Cash Retail, Dispensing, and Photographic Business. Apply, stating age, salary required (live on the premises), experience, references, photo, if possible, to F. Moss, 206 Redland Road, Bristol.

DARLINGTON.—Assistant required; abstainer preferred. Apply, stating age, height, experience, and salary required, to Waters, Chemist, Darlington.

FARNBOROUGH.—Wanted, two Junior Assistants or Improvers. Please give particulars, with salary (outdoors), to Litchfield, Pharmacist, South Farnborough.

GRANTHAM.—Wanted at once, unqualified Assistant or competent Junior; outdoors; comfortable berth; easy hours. Apply, giving full particulars and salary required, to John Cox & Son, 36 Watergate, Grantham.

KNOCKALOE DETENTION CAMP, Isle of Man.—Qualified Dispensers are required for the above-named camp. Particulars of the appointments may be obtained on application. B. E. Sargeant, Government Secretary, Government Office, Isle of Man.

LEICESTER.—Junior Assistant (outdoors) required for good-class up-to-date business. Please state all particulars, and say when disengaged, to Woolley & Co., Dispensing Chemists, London Road, Leicester.

LIVERPOOL.—An Assistant for good-class Dispensing business; indoors. Please apply, with full particulars, to Anthony S. Buek, 179 Bedford Street.

LANEY.—Wanted, good Junior or Improver (indoors or out). Apply, giving full particulars and salary required, also when available, Wade, Chemist.

LONDON.—£2 2s. per week.—Unqualified Assistant required for working-class business; permanency. "Det." (168/022), Office of this Paper.

LONDON.—Wanted for large Pharmacy, Locum, first fortnight in September; qualified; lady or gentleman; highest references essential. Apply "Manager" (175/62), Office of this Paper.

LONDON.—Wanted, Locum, Minor qualification, for three weeks September or October; moderate hours; salary £3 per week. Apply, 171/9, Office of this Paper.

LONDON, N.—Locum, two weeks or longer, in August and September; quick Retail and Dispensing. Terms, photo, and references to "Spes" (167/35), Office of this Paper.

LONDON, N.—A Dispenser wanted for two weeks by a firm of Doctors. Apply to Dr. C. B. & C., 124 Strand Greed Road N.

LONDON, N.—An experienced Assistant, also Junior or Improver; time off for attending lectures or study if desired also Assistant for mornings from 9 to 1. Apply, letter only, stating experience, names of referees, when disengaged, and salary expected (in- or out-doors) in each instance, "Chemist," 82 Bayston Road, Stoke Newington, N.

LONDON, S.E.—An experienced Assistant wanted; outdoors. Good Dispenser and Counterman. Apply, with full particulars of experience, age, height, and salary required, and when disengaged, to J. W. Rumsey & Son, 37 Dulwich Village, S.E.

LONDON, S.E.—Lady Assistant wanted (outdoors) for quick Cash business, with knowledge of Dispensing; close Thursdays 1 o'clock; no Sunday duty. State age, experience, and salary required, Brooks' Drug Stores, corner of High Street and Broadway, Deptford.

LONDON, S.E.—Unqualified Assistant wanted (outdoors) for quick Cash business; close Thursday 1 o'clock; no Sunday duty. State age, experience, and salary required, Brooks' Drug Stores, corner of High Street, Broadway, Deptford.

**L**ONDON, S.W.—Part-time man required; evenings and Thursday afternoons. State terms required, 168/22, Office of this Paper.

**L**ONDON, S.W.—Assistant wanted; outdoors; whole, part-time, or temporary; also a vacancy for lady with some knowledge of Pharmacy. Evans, 72 North Side, Clapham Common, S.W.

**L**ONDON, S.W. Suburb.—Outdoor Assistant with Dispensing experience required at once. Full particulars as to age, references, experience, and salary required, to C. J. G. Bunker, 30 York Street, Twickenham.

**L**ONDON, W.—Required, an Assistant accustomed to Dispensing; lady or gentleman, in- or out-doors as desired; no N.H.I. work. Apply, stating age, experience, and salary required, to W. A. Weston, 8 Sandringham Parade, Ealing.

**L**ONDON, W.—Wanted, a qualified Assistant with good Dispensing experience. Apply, stating age, experience, and giving references, to Squire & Sons, Ltd., 413 Oxford Street, W.

**L**ONDON, W.—Wanted, a Junior Assistant (23 to 30); good Dispenser; outdoors. W. F. Pasmore, 320 Regent Street (opposite the Polytechnic).

**L**ONDON (West End).—Competent, reliable, British Assistant for about three months, perhaps longer; outdoors; no Sunday duty. Give full particulars, 165/33, Office of this Paper.

**M**ANCHESTER.—Wanted, elderly qualified Assistant; outdoors; not single-handed; give full particulars in first letter; hours 9 to 9, Wednesdays 1 o'clock, Saturdays 10.30. 167/32, Office of this Paper.

**M**ANCHESTER District.—Qualified Manager required for good-class Retail and Dispensing business. Apply, stating age, height, references, salary, etc., and enclosing photo (to be returned), to T. & W. Woodruff, Chemists, Cheadle, Cheshire.

**O**XFORD STREET, W.—Assistant or Junior required for modern business; outdoors; no Sunday or holiday duty; hours 9 a.m. to 9 p.m. Meyrick & Davies, 34 James Street, W.

**S**OUTH COAST.—Dry Counterman required; permanency; good wages. Please state age, experience, etc., Timothy White Co., Ltd., Portsmouth.

**S**OUTH OF ENGLAND.—Assistant required; permanency with good salary. Timothy White Co., Ltd., Chemists, Portsmouth.

**S**OUTH STAFFS.—Wanted immediately, qualified Assistant, lady or gentleman; Light Retail and N.H.I.; easy hours; outdoors; permanency; Extractor preferred, but not essential. Full particulars and salary required first letter, E. A. Fereday, Chemist, Chelyn Hay, Walsall.

**OUTH WALES.—Wanted** immediately, a steady, reliable Assistant for quick Cash trade; one with knowledge of Photography preferred; salary (according to experience) 30s. to 40s. per week (outdoors); hours 9 to 8.30, Saturday 10.30; half-holiday Thursday; no Sunday duty. Give full particulars first letter, also enclose photo if possible, Francis, Chemist, New Tredegar.

**W**OLVERHAMPTON.—Wanted, for September, a qualified Assistant, used to good-class Retail and Dispensing business. Please give full particulars, and state salary required (outdoors), Phillips, Pharmaceutical Chemist, Wolverhampton.

**W**OLVERHAMPTON.—Qualified Assistant, lady or gentleman; easy berth; no night or Sunday duty; half-day Thursday. Send all particulars, and photo if possible, when disengaged, and salary required to the Wednesfield Drug Stores, Ltd.

**Y**ORKSHIRE.—Elderly qualified man required; Yorkshire (West Riding); easy hours; work light; permanency. State age, when at liberty, and salary desired, 168/202, Office of this Paper.

**A** SMART Dispenser wanted, used to N.H.I. Dispensing; good wages. Apply in person, Wm. Fox & Sons, Ltd., 109/13 Bethnal Green Road.

**A** BOUT the middle of August, a competent trustworthy Assistant, used to good Dispensing business. Pickard, 3 West Kensington Terrace, W. (opposite West Kensington Station).

**A**FTER the War good, comfortable jobs will be scarce; an honest, straightforward man can secure a permanent position as Manager of a London Drug Store; an unqualified man with knowledge of either Wholesale or Retail trade would suit; rooms on premises. State salary (a stamped postcard will ensure a speedy reply), 171/26, Office of this Paper.

**A** LL-ROUND Assistant, unqualified, at once, for good-class business; easy hours; no Sunday duty; salary £2 2s. Apply, Arthur Newton, Yeovil.

**A** N outdoor Assistant, accustomed to Hospital Dispensing. Apply, stating experience, age, and salary expected, to Dix, Lancaster & Co., 8 High Street, Croydon.

**A** N Assistant for good Country Dispensing business; no Sunday duty. State full particulars, F. Fresson, Pharmacist, Stevenage, Herts.

**A** SSISTANT required for holiday relief for about two months; qualified or unqualified. Full particulars, salary required, etc., to Boddy, 10 Victoria Parade, Norbury, S.W.

**A** SSISTANT (outdoors), for Retail and Prescribing business; qualified; Extractor; comfortable berth; easy hours. Willis, 35 Straits, Portland.

**B**RANCH Manager (at once or later); qualified preferred (good unqualified might do); all-round experience; Extractor; good references; outdoors; healthy district; reasonable hours; no Sunday duty; good salary and commission on Dental work; permanency. Kindly give full particulars, Hughes & Sons, Chemists, Abercarn, Mon.

**C**APABLE Assistant, with Dispensing experience; indoors; not liable to military service. State salary and usual particulars to "Aspirin," 302 City Road, N.

#### TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

#### ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitability.

BE BRIEF BUT CLEAR.—Millions of applications are consigned to the waste-paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

## RESULTS

OF ADVERTISING IN THIS SUPPLEMENT  
LAST WEEK JULY 17 1915

NATURE OF ADVT.      REPILES

|                |    |
|----------------|----|
| SIT. WANTED    | 19 |
| LOCUM          | 14 |
| REPRESENTATIVE | 14 |
| QUAL. MANAGER  | 12 |
| DISPENSER      | 12 |



is Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or nom de plume.

## RETURNING PHOTOS, Etc.

Advertisers in this Section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

**C**HEMISTS.—Smart, qualified men, accustomed to quick cash trade, required for Branches in the North of England. Please state salary required, references, experience, and when disengaged, "Chemist," Taylors' Drug Co., Ltd., P.O. Box 141, Leeds.

**C**HEMIST'S Assistant wanted (male or female) in a large town in South Wales, for Dispensing and Counter (outdoors). State age, salary required, and reference, to 169/23, Office of this Paper.

**C**URTIS & CO. have a vacancy for a qualified Assistant, about 24. Apply, with full particulars, to W. Jameson, c/o Curtis & Co., 48 Baker Street, W.

**D**ISPENSER wanted; one who could assist in making Tinctures, Ointments, etc., preferred. Apply, giving full particulars as to age, experience, wages required (outdoors), to the Manager, Leicester Public Medical Service, East Bond Street, Leicester.

**D**ISPENSER and Bookkeeper wanted (lady). Give full particulars of experience, references, salary required (outdoors), Dr. Waterhouse, 5 Westgate, Ripon.

**E**ASY post for qualified Chemist in Black Country, Birmingham district; elderly person or qualified lady would suit; short hours; state salary required for very little work; good references essential. Address, "A. B. C." (169/33), Office of this Paper.

**E**VENING Dispensing, N.H.I.—Assistant wanted, not over 40, for three or four evenings weekly from 6 o'clock. J. Brooks, Pharmacist, 8 High Street North, East Ham, E.

**E**XCEPTIONAL opportunity for smart young qualified man of good experience; Managing Directorship of West-End Company; salary £200 per annum; required to invest £200 in shares of the Company. Apply, "Nemo" (171/27), Office of this Paper.

**G**ILES, SCHACHT & CO., Clifton, Bristol, require Retail Assistant; qualified preferred; indoors. Applicants should state age, height, salary required, and enclose photo.

**I**MMEDIATELY.—Qualified Assistant; indoors; would suit elderly gentleman; light duties; half-day weekly; comfortable home; healthy district. Apply, with full particulars, salary, and references, P. R. Hill, Pharmaceutical Chemist, 90 High Street, Gorleston-on-Sea.

**J**UNIOR or Improver (outdoors) for a quick Retail and Dispensing business; good opportunity for acquiring a thorough knowledge of the business; six Assistants kept. The Prosser Roberts Co., Pharmaceutical Chemists, 13 Church Street, Camberwell Green, S.E.

**J**UNIOR Assistant wanted early in August. Apply, stating age, experience, references, and salary expected, to Williams, Chemist, Tylorstown.

**J**UNIOR or Improver; Light Retail and Dispensing; with some knowledge of Photography; outdoors; easy hours; 8 to 7.30, Thursday 1, Friday 9, Saturday 10; no Sunday duty. State age, height, references, and salary required to Hodgson & Hepworth, Ltd., Doncaster.

**J**UNIOR Assistant wanted immediately; keen Counterman; good appearance. Full particulars, references, and salary, in confidence, Johnson, 67 Charles Street, Milford Haven.

**L**ADY Dispenser wanted two evenings weekly by firm of Doctors in Brixton. Apply, "Dispenser," 410 Brixton Road, S.W.

**L**ADY Pharmacist required as Assistant Dispenser at the London Homeopathic Hospital; Homeopathic experience not essential. Apply, with testimonials, to the Secretary, Great Ormond Street, Bloomsbury, W.C.

**L**ADY wanted, to take charge of small Wholesale Department; must be good Stockkeeper and trustworthy. Apply by letter in first instance, to Roberts & Co., 76 New Bond Street, W.

**L**ADY Chemist (Minor) to take charge Branches, London districts (Insurance Dispensing mainly) four hours morning and evening. Please state experience and salary required in first letter, also when disengaged, 171/16, Office of this Paper.

**L**OCUM wanted immediately for three weeks; hours easy; no Sunday duty. State terms (indoors) and references, Cooper, Chemist, Swaffham.

**L**OCUM; salary £3 5s.; must be qualified; about two months' work, permanency afterwards if satisfactory. 168/020, Office of this Paper.

**L**OCUM; 6 weeks commencing August 9; suit Minor student. Apply, Manager, Pharmacy Waldorf, Aldwych, W.C.

**M**ALE Dispenser wanted for about five weeks for a local Dispensary; hours 11 to 2 daily. Holmes, Chemist, Upper Clapton.

**M**ESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist as Manager; easy hours; good and progressive salary, with excellent prospects.

**M**IDDLE-AGED, unqualified Assistant required immediately; must be thoroughly reliable; total abstainer. Full particulars in first letter to W. E. Giles & Son, Pillgwenly, Newport, Mon.

**O**UTDOOR Junior, or one who requires time for study, wanted for Clapham district; very convenient for Schools. Apply, with usual particulars, enclose photo, or call personally, Banbury, 390 Walworth Road, S.E.

**Q**UALIFIED Manager required for Branch shop; Light Retail and Dispensing, with N.H.I.; moderate hours; good references required; outdoors. Apply, with full particulars, stating salary required, to Walter E. Plant, Pharmaceutical Chemist, 28 High Street, Doucaster.

**Q**UALIFIED Manager, lady or gentleman, for Branch; easy hours; half-holiday; permanent or Locum; immediately or by August 3; would suit one accustomed to middle class. State salary required and usual references to E. Tibbles, 90 Broomhall Street, Sheffield.

**Q**UALIFIED.—Vacancy occurs for "Minor" man with good experience in quick London business; progressive position of willing and energetic. State age, height, salary required (outdoors), whether married or single, when disengaged, and particulars of experience to 166/053, Office of this Paper.

**Q**UALIFIED Manager for Retail and Dispensing business; indoors preferred; elderly not objected to. State particulars with salary, Bushby, 308 Upper Brook Street, Manchester.

**Q**UALIFIED and unqualified Assistants required for Retail work; smt students or Part-timer, evening work; N.H.I. and Counter; London district. 171/016, Office of this Paper.

**P**ART-TIME Assistant wanted, evening duty; suitable for one attending classes, etc., medical or others; comfortable home 175 Uxbridge Road, London, W.

**R**ELIABLE Assistant of good experience (qualified or unqualified); liberal salary; outdoors. Apply, stating age, experience, salary required, and enclose photo, to Ralph Cuthbert, Ltd Chemists, Westgate, Huddersfield.

**S**UB-MANAGER required for the Drng. and Perfumery Department; candidates must be qualified and have good business training; personal application before 11 a.m. or after 5 p.m., if letter give full particulars and enclose photograph. Apply, Rec Office, Selfridge's, Oxford Street, W.

**T**HE THROAT HOSPITAL, GOLDEN SQUARE, W.—A qualified Dispenser is required; salary £120 per annum. Application by letter only, enclosing copy of testimonials, should be sent to the undersigned as soon as possible. W. Holt, Secretary-Superintendent.

**U**NQUALIFIED Assistant for small country town; Mixed business; healthy neighbourhood; easy hours; no Sunday duty in or out-doors. Send full particulars and enclose photo, J. Brid Davies, Chemist, Bromyard.

**U**NQUALIFIED Assistant wanted immediately; outdoors. Please state full particulars of age, experience, salary required, to Meyler, Pharmacist, Milford Haven.

**U**NQUALIFIED Manager for small Drug Store, London, experienced Managing, good Counterman, Prescriber; steady and reliable; married; live on premises; nice house; salary £3 weekly, house and gas, and commission if increasing returns; scope; permanency if suitable. "Manager" (163/17), Office of this Paper.

**U**NQUALIFIED Assistant required for London, with all-round Dispensing, Counter, and Photographic experience; £5 salary to suitable man. Apply, giving full particulars, which be treated in confidence, to 166/35, Office of this Paper.

**W**ANTED, unqualified Assistant; short hours. Apply, with particulars as to experience, salary, etc., and photo, if possible, Ferris & Co., Ltd., Bristol.

**W**ANTED (at once), reliable Dispenser (male or female) for Medical Man's Surgery; work light, ample time for read. Apply, with references, stating age, experience, and salary required, to Dr. Browne, Northwich, Cheshire.

TED, Junior or Improver in Mixed Retail business; in-  
ters, Davies, Chemist, Pembroke.

TED at once, unqualified Assistant. Give full particulars  
experience, references, salary required, and if disengaged,  
or & Harris, Canterbury.

TED, a lady Assistant for a West-End Pharmacy; one  
h a good knowledge of the Retail business; state age and  
e. Apply, 174/43, Office of this Paper.

TED, Assistant for Dispensing Counter; good salary to  
suitable man; outdoors. L. Cameron, Pharmaceutical  
Seaford.

TED, young lady Assistant, age about 21, for Counter  
to assist with Dispensing; qualified lady kept. Please  
try (outdoors) and references, etc., to T. Charles, Chemist,

TED, qualified lady Chemist or middle-aged man; duties  
Insurance Pricing, Stock, and Counter. Apply, with  
s, photo, etc., to S. A. Sheard, Pharmacist, Morley, Yorks.

## WHOLESALE.

ests, trade circulars, samples, and printed matter can be  
e forwarded, the Box numbers being intended exclusively  
e answers to particular advertisements. The Publisher  
e the right to open and refuse to forward any communica-  
eived which he may consider contrary to this rule.

TINGHAM.—Drug Traveller wanted for Nottingham and  
Eastern Counties. State age, experience, and salary re-  
59, 38, Office of this Paper.

SONS LESCHER & WEBB, LTD., Liverpool, require  
nently several experienced Laboratory hands; favourable  
suitable men. Apply, 29 Fleet Street, Liverpool.

ENCED Packers required for Packing Drugs and Chemi-  
home and export; good prospects to reliable men; per-  
Apply, Burgoine, Burbidges & Co., East Ham, E.

Clerk wanted by old-established Wholesale Druggists;  
So London; must be an efficient and experienced man;  
g full particulars, age, and salary required, to 168/48,  
of this Paper.

Clerk required at once; must have had previous ex-  
perie and be quick at figures; preference would be given  
to those possessing a knowledge of Shorthand and Typewriting;  
ents invited from ladies. Apply, with full particulars,  
age and salary required, to Manager, Messrs. Savory &  
15 New Bond Street, W.

Clerk wanted; preference given to one with experience  
in Typewriting. Apply, Meggeson & Co., Ltd., 14/15 Miles  
Upper Thames Street, E.C.

TORY Assistant required at once by Savory & Moore,  
ew Bond Street; applications invited from ladies. Apply,  
full particulars, stating age, experience, and salary required,  
143 New Bond Street, W.

hemist, Minor qualifications, required for Bottling  
als in London Wholesale house. Write, stating full  
to "W. M. C." (174/12), Office of this Paper.

orthand-Typist required for Export Merchant's office;  
ed to Drugs and Chemicals preferred; salary 25s.;  
to 6, 1 on Saturdays. Apply, stating speeds and  
erience, to "T. P.," c/o Dawson's Advertising Agency,  
Street, E.C.

ER wanted for the Manchester district; must have  
first-class experience in Perfumes, Creams, Powders, etc.  
age experience, and salary required, 167/58, Office of this

ENTATIVE calling on Chemists throughout Ireland  
for a small Side-line; also Representatives wanted  
and Wales. Write, giving full particulars, Liverine  
d, Chmsby.

ENTATIVE able to influence business among London  
all suburban Chemists; small salary and commission. Apply,  
l particulars as to goods now carried and ground covered,  
e, to "Progress" (166/25), Office of this Paper.

REPRESENTATIVE wanted; one who now visits Hairdressers  
and Perfumers can command good commission on sales of  
French preparations for the hair. Write in first instance to  
"Etienne" (158/26), Office of this Paper.

REQUIRED (at once), competent Wet and Dry Countermen and  
Junior Laboratory Assistants. Apply by letter, stating previous  
engagements, age, and wages required, to "Export" (171/8), Office of this Paper.

SHIPPING Clerk wanted at once; not eligible for the Army;  
some experience with Shipping Spirits under drawback.  
Apply, with full particulars, 167/36, Office of this Paper.

SHIPPING Clerk wanted; one accustomed to Consular work  
preferred. Apply, by letter, stating full particulars and salary  
required, to "R. L." (Contracts), 7-12 Aldersgate Street, E.C.

SUNDRIES Department.—Required at once, girls for fitting  
Soothers, Feeding-bottles, etc., and wrapping Dressings.  
Apply, giving full particulars and wages required, to "X. Y. Z."  
(175/069), Office of this Paper.

TRAVELLERS required on commission basis, calling on Chemists  
and Druggists. All communications to be addressed "Zoraya"  
(174/1), Office of this Paper.

WANTED, experienced Dry and Chemical Counterme; good  
prospects for reliable men. Apply, stating full particulars,  
to Burgoine, Burbidges & Co., East Ham, E.

WET Counter hand (Junior) wanted by South London Wholesale  
Druggists. Write particulars, age, and wages expected to  
168/048, Office of this Paper.

WET or Dry Counter hands wanted, with some experience.  
Apply, stating full particulars of age, experience, and  
wages expected, to 167/39, Office of this Paper.

WET Floor.—Required at once, Assistant for London Wholesale  
Druggist. Apply, stating age and wages required, to 175/69,  
Office of this Paper.

WHOLESALE.—Assistant for Wet Counter required at once,  
experienced, or one from the Retail world suit; reliable;  
permanency; also a Junior Clerk. "Sulphonal" (174/48), Office  
of this Paper.

WOMAN Packer wanted, accustomed to putting up Chemist's  
stock. Apply, "A. J. B. C." Cooper, Son & Co., Ltd.,  
80 Gloucester Road, South Kensington, S.W.

## SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

3s. 6d. for 50 words or less; 6d. for every 10 words or less  
beyond, prepaid. The **Advertiser** may, if preferred, have replies  
addressed to this Office, and forwarded on payment of an additional  
charge of 6d.

SOUTH AFRICA.—Required, for Transvaal, qualified Assistant,  
single, age about 25; 3 years' agreement; first-class passage  
paid out; free quarters provided; salary first year £18 10s. per  
month, second year £20, third year £22 10s., with percentage  
of profit. Apply, in writing, giving full particulars, to "F. J. G.,"  
c/o C. J. Hewlett & Son, Ltd., 35-42 Charlotte Street, London,  
E.C.

## SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every  
10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies  
addressed to this Office, and forwarded on payment of an  
additional charge of 6d.

### [HOME.] RETAIL.

ACCURATE Dispenser; tactful business man. Forster,  
54 Romilly Road, Finsbury Park, N.

AS Locum; unqualified; fortnight in August; experienced; good  
references. Bazley, Amherst Road, Sevenoaks.

AS Junior or Improver. 170/14, Office of this Paper.

**A**SSISTANT open for engagement from August 1. 168/35, Office of this Paper.

**A**SSISTANT, free Bank Holiday week, will relieve hard-pushed Chemist requiring a rest. "Statim," 16 Willesden Lane, Kilburn, N.W.

**A**SSISTANT, age 21 years, requires berth, with Dispensing experience; London preferred. 171/6, Office of this Paper.

**B**ELGIAN refugee, Pharmacist, for many years owner of old-established business in Liège, desires situation in English Pharmacy; good London references. 172/9, Office of this Paper.

**B**RANCH Manager; near London; age 50; married, no family; unqualified; Photography, Dentistry, Dispenser, Prescriber, Counterman; reliable. "B. P.," 2 Hamfrith Road, Stratford, E.

**D**ISENGAGED; lady Dispenser (Hall qualification) desires situation in London, S.W. district preferred; outdoors; part-time or easy hours; speaking French. 171/13, Office of this Paper.

**D**ISENGAGED; Locum, permanency; excellent experience; moderate terms; references. "Energetic," c/o "Counties," 185 Tottenham Court Road.

**D**ISPENSER or Locum; first-class experience. "Dispenser," 58 Warwick Avenue, Maida Vale, W.

**E**XPERIENCED Pharmacist offers few hours per week for Hospital War work. Address, 168/19, Office of this Paper.

**G**ENERAL Nurse seeks position with Chemist (London). Nurse, 15 Bernard Street, Russell Square, W.C.

**I**WANT a well-paid position in any part of the world; Wholesale or Retail; not eligible for Army; age 26; brains, ability, and large experience; not afraid of work. 168/30, Office of this Paper.

**L**ADY requires post as Dispenser; Doctor or Pharmacy; 4½ years' experience; good references; personal interview; Bristol or Bath district preferred. 168/14, Office of this Paper.

**L**ADY Dispenser desires post with Doctor; West London preferred; Hall certificate. 168/16, Office of this Paper.

**L**ADY Dispenser (Hall), experienced, requires post. Miss L., 3 Culross Street, Park Street, W.

**L**ADY Dispensers, qualified and experienced, also competent to do Bookkeeping, Bandaging, and Dressings, etc., can be obtained immediately on application to the Secretary, London College of Pharmacy for Ladies (founded 1892), 7 Westbourne Park Road, London, W.

**L**ADY, qualified, requires Locum as Dispenser at once. 168/3, Office of this Paper.

**L**OCUM; 45; all-round experience; Photography, Dentistry; unqualified; disengaged; £3 and return fare. "Statim," 33 Park Street, Liverpool.

**L**OCUM; experienced; open August 9-17 inclusive; abstainer; references; coast town preferred. "L. T.," c/o Lees, Chemist, Carrington, Nottingham.

**L**OCUM; qualified; reliable; experienced; town or country; disengaged August 7 to 23. "Minor," 12 Tyrwhitt Road, St. John's, S.E.

**L**OCUM; active and capable; disengaged August 2. "W. B.," Atkins & Son, Salisbury.

**L**OCUM or Permanency; qualified; smart Counterman and Dispenser. Lurey, Northfield Square, Leeds.

**L**OCUM; qualified; Croydon district; first two weeks August. Owles, 17 Elgin Crescent, Notting Hill.

**L**OCUM; qualified Chemist; partially retired; would take responsible charge of country Retail for a few weeks. Long experience; good service. 169/39, Office of this Paper.

**L**OCUM, Dental-Chemist (in business), desiring change, will take charge for moderate remuneration. 169/31, Office of this Paper.

**L**OCUM or otherwise; disengaged; experienced, steady, and reliable. "D.," 82 Marlborough Road, Komford.

**M**ANAGER; experienced Pharmacist; at liberty; disengaged and organiser; healthy district. State salary, hours usual partisans, 169/9, Office of this Paper.

**M**ANAGER; qualified; 6 feet; married; first-class Dispenser and Store business. "Pharmacist," 2 Belmont Crescent, Snipley, Yorks.

**M**ANAGER or Assistant; unqualified; steady, active, M. good references; good varied experience; middle-age rate terms. "Chemist," c/o Cahill, 376 Streatham Road, Chester.

**M**ANAGER, Chemist and qualified Optician, requires position in trust, private, company, or abroad; best Dispenser and Store experience; 10 years buyer. "Major" (148/47), this Paper.

**M**ANAGER; qualified; married; age 38; first-class experience in all branches; excellent references. 169/32, this Paper.

**P**ART-TIME desired by Pharmacist; 25; free afternoons; evenings; S.E. London only. 168/18, Office of this Paper.

**P**ART-TIME; evenings; experienced; references. 168/17, Office of this Paper.

**P**ERMANENT occupation; qualified; 42; single; any not in business recently. "Handy" (171/19), this Paper.

**P**RESENT position 10 years, General Manager to a keen buyer, tactful supervision of staff; experienced shipping and fitting out Medicine-chests; age 34. 171/0, this Paper.

**Q**UALIFIED; Manager or Senior; permanency; Leeds Bradford. Apply, Procter, 6 Rosemont Grove, Bramley.

**Q**UALIFIED; single; 27; tall; disengaged; permanent lands preferred. State particulars and salary. 25 Princes Street, Peterborough.

**Q**UALIFIED; 24; high-class experience, good in good-class trade only; height 6 feet; disengaged. D. Keeble, Chemist, Liss, Hants.

**Q**UALIFIED; Dispensership preferred; Oldham district part time. 1 Robinson's Place, Woodbrook, Oldham.

**Q**UALIFIED, 32, requires Manager's berth about Jarvis, 164 High Street, Southampton.

**Q**UALIFIED; 42; single; whole or part time; occupation; London. "Ready" (171/019), Office of this Paper.

**Q**UALIFIED Chemist (middle-aged) seeks permanent employment; Devon or Cornwall; excellent references. 168/Office of this Paper.

**Q**UALIFIED; 27; married; Branch or Senior; 11 class experience. 175/52, Office of this Paper.

**Q**UALIFIED; Minor; age 24; good experience; Dispensing Counter; permanency or Locum; London; fluent French; disengaged. Aubert, 41 Coram Street, W.C.

**R**ELEIF; mornings only; unqualified; Richmond referred. "Alpha," 47 Staines Road, Sunbury-on-Thames.

**R**USSIAN, 26, University training, Chemist, s. Works Assistant, Correspondent, or Translator. 55 Blenheim Gardens, Cricklewood.

**S**ENIOR Assistant; unqualified; efficient all-round Retail experience; could work up or extend disengaged. Letters only, "M.," 54 Darnell Street, Westgate.

**S**OMERSET.—M.P.S.; relieve two or three weeks "R. D. S.," 6 Belvedere Road, Taunton.

**T**EMPORARY Junior or Improver, for month Wales or West England; age 18. State salary, £100 per week. Mr. Morgan, Market Square, Narberth.

QUALIFIED, married, age 32, height 6 ft., of good address, reliable, high-class Dispensing experience, seeks money; preferable within 20 miles of London; reasonable, if liberty August 7, 1915. "C. B." 87 Abingdon Road, W.

QUALIFIED; 32; single; all-round experience; town or country; disengaged August 12. Roberts, 10 Gloucester Place, Kensington, London.

QUALIFIED; temporary, Locum; commencing Monday, July 26; two or three weeks; highest references; London area, etc., 97 Angell Road, Brixton.

Any Chemist undertake to coach student for Apothecaries' Exam., mainly in practical work, on Monday, Tuesday, and Saturday evenings (Saturday morning also if possible); State terms, 165/29, Office of this Paper.

H, 19, 4 years' Drug and Shop experience, seeks situation with Chemist. 166/29, Office of this Paper.

DU G gentlewoman, qualified, seeks Partnership or lucrative post with good prospects as Manager; adaptable; good manner; 5 years' West-End experience; well recommended. 7/Office of this Paper.

Inqualified requires Part-time day work, two or three weeks; excellent references. Apply "Medico," 1 Cedars, Lapham Common, S.W.

## WHOLESALE.

Advertisers, trade circulars, samples, and printed matter can be forwarded, the Box numbers being intended exclusively for answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communication received which he may consider contrary to this rule.

DRTISER-desires change; 10 years General Manager to a Company; Wholesale and Retail; keen buyer, smart Salesman; Representative for a good firm. 171/3, Office of this Paper.

HIST, 25, with nine years' manufacturing experience in various works (three in a managerial capacity), requires 1. Hitchill Road, Gravesend, Kent.

KEEPING; thorough knowledge Patents and Sundries; 10 years' experience; good references. "W." 28 Eade Road, Park, N.

GER, Buyer, or responsible position required by gentleman with over 25 years' best London and provincial experience; thorough knowledge of the Drug, Photographic, and Fauxy trades; last two situations of 7 and 8 years each as Buyer in two of the largest London Departmental highest credentials. "E. R." (171/29), Office of this

ELLER desires re-engagement; excellent connection and record; qualified Chemist; familiar all branches Drug and allied trades; can influence business; reliable and experienced with first-class references; disengaged. "Comp." (170/6), this Paper.

**LET US ADVISE YOU**  
the Best Way of ensuring the  
QUICKEST POSSIBLE METHOD OF  
OMBATING DECREASED TRADE.

W produce Showcards that ATTRACT THE PUBLIC EYE to your  
Woods—WE WANT YOU TO TRY THEM. THE RESULTS  
WILL SURPRISE. Their cost is small.

F. MORTEN & CO., 72 Marlborough Road, Holloway, London, N.

ose Tables for Students of Pharmacy.

### NEW EDITION.

TENTY-EIGHT page booklet showing the adult doses in ordinary cases of the principal medicinal agents. The Edition includes the doses in Imperial and Metric terms side also contains Metric equivalents for Dispensing and a table of atomic weights, comprising the B.P. figures, and a International Committee's latest pronouncements (0-16 and 1). The booklet measures 4½ in. by 2½ in., and can be carried in the pocket. To be obtained from "The Chemist and Druggist," 42 Cannon Street, London, E.C., for FOUR PENNY PER COPY.

## MISCELLANEOUS.

M CADAM & TUCKNELL, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone, 81 Lee Green. Shares for Sale (free of commission, subject).—100 Mellin's 6 per cent. Preference, 14s. 6d.; 50 Clandon Ash 5½ per cent. Preference, 21s.; 50 W. B. Fordham's, 11s. 9d.; 50 International Sponge Preference, 12s. 3d.; 100 British Oxygen, 37s. 9d.; 250 Idris "A" Preference, 2s. 9d.

Wanted (subject).—500 Lewis & Burrows Preference, 8s. 9d.; Camval Ordinary Preference and Debentures; Idris Debentures. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London County and Westminster.

**SHOPFITTINGS—GENUINE SECOND-HAND BARGAINS.**—10-ft. Mahogany Wall-case, £15 10s.; Sponge-case with bent case on top, 75s.; 5-ft. Plate-glass Counter-case with drawers at back, 62s. 6d.; 6-ft. Mahogany and Plate-glass Dispensing and Counter, with Sponge-case, £15 17s. 6d.; 12-ft. Drug Fitting with Glass Labels and Knobs, £11 10s.; 11 ft. 6 in. Glass-fronted Counter, £7 17s. 6d.; Perfume Case and Desk, 37s. 6d.; COMPLETE SET OF FITTINGS, 10 ft. Drug Fittings, 5-ft. Wall-case, 6-ft. Screen and Counter, 3-ft. Counter-case, 10-ft. Serving Counter, Perfume Case and Desk, Nest of Counter Drawers, £31 the lot. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

8 LB. Sod. Salicylate, 1,000 Phenazone Tablets gr. v. 1,000 Phenacetin Tablets gr. v., 5 lb. Acid. Yellow G Aniline, 2 lb. Ponceau G Aniline; what offers? Furnival, Chemist, Hamley.

**SODA-WATER Trolley**, that makes heavy work light, and on which a boy of 8 can easily convey 3 dozen syphons; will go through any doorway; hundreds in use in all parts of the country; carriage paid 37s. Sole Makers, Arthur & Co., 9 K.P., Cambridge.

**CREAT Bargains in Second-hand Fittings.**—10-ft. Drug Fitting, 6-ft. Screen and Counter, 6-ft. Wall Case, 10-ft. Plate-glass Serving Counter, Desk and Case, Plate-glass Counter Case, £39 10s. Call or write, Philip Josephs, 93 Old Street, London, E.C. Phone London Wall 9057.

**CHEMISTS' Shopfittings.**—Silent Salesman, Showcases, Window-enclosures, Dispensing-screens, Drug-fittings, Wallcases, Glass-front Counters, Counter, Drawers, etc., at lowest prices; shop-soiled second-hand; 30 years fitting pharmacies; you will save time and money by sending your requirements to George Cook, The Chemists' Working Shopfitter, Catherine Street, City Road, Old Street, London.

**SECOND-HAND Chemists' Fittings.**—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, London, E.C.

**BEST cash price paid for all old Cameras, any make, also all old Photo goods, no matter how damaged; any kind you may have send them along; cash will be sent same day; no waiting; we buy all and return nothing. S. E. Hackett, 23 July Road, Liverpool, E.**

**N.H.I.**—Those back numbers are worth money to you. Have you tried my service? You send me your Prescriptions, Account Forms, and Tariff, and I return to you absolutely ready to forward to Committee. I have a competent staff. No order too small and none too large. F. H. Richards, Prescription Pricing Expert, 59 Dudden Hill Lane, Willesden, London.

## WAR WANTS EXCHANGE.

The object of this section is to facilitate the interchange of pharmaceutical products which are scarce at present owing to the War, and which the inquirers have failed to obtain through the customary business channels.

### TERMS

Minimum charge (including registration fee) of 1/- for six words or less; 2d. per word beyond, prepaid. Inquiries are inserted with a registration number attached to each item, and replies will be communicated direct to the inquirers by the Information Department of "THE CHEMIST AND DRUGGIST."

### WANTED.

Principals having any of the following articles to dispose of are requested to notify the fact by postcard or otherwise stating quantity and price to

### THE WAR WANTS EXCHANGE.

"The Chemist and Druggist," 42 Cannon Street, London, E.C.  
Alypinoids (Bayer's) (165/30) Iodival tablets (168/33)  
Dermatol dusting-powder Pot. iodide (175/64)  
(166/31) Sodium salicylate (175/64)  
Euresol (166/31)

## FOR DISPOSAL.

Bona-fide buyers of the following articles are requested to communicate their exact requirements promptly to us, and we shall place them in touch with sellers:—

|   |   |
|---|---|
| Acetanilide, 1 lb. (170/37)   | Paraffin, liquid, opt., 1 gal. (173/27)       |
| Acid, acetyl-salicyl., 1 oz. (156/28), 2 lb. (170/37), and 1 lb. (173/27) | Phenacetin, 2 lb. (170/37)                    |
| Acid, acetyl-salicyl. tablets (175/64)                                    | Phenazone, 2 lb. (170/37)                     |
| Argyrol, 1 oz. (166/22)   | Piperazine, $\frac{1}{4}$ oz. (166/22)        |
| Balsam Peru, 4 oz. (156/28)   | Pot. permang., 10 lb. (170/37)                |
| Bismuth subgallate, 8 oz. (156/28)  | Pot. permang. (175/64)                        |
| Camphor, monobrom., about 3 lb. (166/35)                                  | Saccharin tablets (175/64)                    |
| Codeia, 1 $\frac{1}{2}$ oz. (165/8)                                       | Sal ammoniac crystals, 1 cwt. (156/28)        |
| Ichthyl, ammon., $\frac{1}{2}$ lb. (170/37)                               | Salicene, 8 oz. (156/28)                      |
| Iodoform (Howards'), 1 $\frac{1}{2}$ lb. (156/28)                         | Salicine (175/64)                             |
| Laetophenin tablets, 12 doz. (166/22)                                     | Sodium salicyl. (B. W. & Co.), 4 lb. (170/37) |
|   | Strontium bromide, 8 oz. (156/28)             |
|   | Styral, 1 oz. (166/22)                        |
|   | Tannigen, 1 oz. (166/22)                      |
|   | Trional, 1 oz. (166/22)                       |

### Appreciations.

"Many thanks for letter with long list of inquirers for my 'war goods.' Your scheme is an excellent one." (157/64.)

"I beg to thank you for enabling me to dispose of beta-euacaine and anaesthesia. It is seldom that I have pocketed a pound with so much satisfaction."—(169/60.)

## EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.  
No advertisement inserted for less than 6d.

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

## FOR DISPOSAL.

### DRUGS AND CHEMICALS.

MORPHIA hydrochlor., 8 oz. at 16s. per oz. post free. Howard, 15 West Street, Fareham, Hants.  
6 lb. mercury (offer), chemical balance (by Becker), set metric weights, 15s. 165/35, Office of this Paper.

### SHOP FITTINGS.

NINE doz. quart green poison-bottles, 9 doz. 4-oz. white opal pannelled flats. A. G. Doble, Chemist, Penzance.

### MISCELLANEOUS.

OLIVER typewriter; good order; £10; or exchange for Encyclopaedia Britannica. Bentley, Dovercourt.  
200 3d. tubes Itsem dyes, 6 doz. 1-oz. white glass jars, pink caps; what offers? H. Allison, Chemist, Lincoln.

### WANTED.

WANTED, second-hand dental engine; also surgery fittings, etc. 91 Falsgrave, Scarborough.  
CHECK till wanted, in good order. State price, etc., carriage paid. Cole, Chemist, Cavan.  
GLEDHILL or O'Brien cash till. State lowest price, "Dr. Jim's" Drug Stores, Wednesfield, Staffs.  
WANTED, evaporating pan for soft extract, about 8 gallons; exchange "Gem" still. Fowden, Chemist, Altrincham.  
WANTED, a model for window-display to advertise skin-disease remedy; also diagrams and charts of same. "Hospital," 21 Portland Square, Bristol.  
OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, 41 Voltaire Road, Clapham, London, S.W.

## Minor Experiences.

### THE LONDON EXAMINATION.

F. S. M. C. (107/60) says that after a month's course he had notice to attend at Galen Place at 9 on the examination-day.

In DISPENSING he was set the following paper:

|                                      |                           |
|--------------------------------------|---------------------------|
| Lin. potass. iodid. c. sapone        | about 100 grams.          |
| Sodii bicarb.                        |                           |
| Bism. carb.                          | ... ... ... ... aa. gr. x |
| Mucilag. trag.                       | ... ... ... ... 3s.       |
| Inf. aurantii co. ad                 | ... ... ... ... 3j.       |
| M. Fiat mist. Mitte 3vij.            |                           |
| Sig.: 3j. t.d.s. p.c.                |                           |
| Strychnin. sulph.                    | ... ... ... ... gr.       |
| Ac. arsen.                           | ... ... ... ... gr.       |
| Fiat pil. parv. Mitte xxiv. Varnish. |                           |
| Sig.: j. t.d.s.                      |                           |
| Lin. potass. iodid. c. sapone        | ... ... ... ... 3j.       |
| Ext. bellad.                         | ... ... ... ... 3j.       |
| Ol. caryophylli                      | ... ... ... ... 3s.       |
| Ol. gaultheria                       | ... ... ... ... 3s.       |
| M. Fiat lin.                         |                           |

Supposit. iodoformi, B.P. Mitte vj.

Everything turned out well.

PRACTICAL CHEMISTRY proved to be easy. The "e" found to contain sodium citrate and antimonious c volumetric analysis the work was: "Examine the of ferri carb. saech., and report as to the a FeCO<sub>3</sub>."

The following day he was requested to attend for and two days later he again proceeded to Gal feeling very fit.

In BOTANY a specimen of *Datura Stramonium* for identification. What order? Why? Fenn Order? What is a fern? An archegonium? What does it grow and what does it contain? What part of the is the sponspophyte? What is a fruit? What is syngenesious? The English names for half-a-dozen plants for recognition were next required, and were shown—T.S. stem of a water plant and stem. Questions on these ended this subject.

PHARMACY.—This was the stiffest ordeal. The questions were asked: Write out all the preps the B.P. you know of containing strychnine, strengths and doses. Do the same for all the containing belladonna. Estimation of ext. nucis. How is liq. bismuthi made? What does lin. lant? Define solution, distillation, fractional Several questions were asked as to the composition of camph. co., tinct. chlorof. et morph. co., syr. E. In what part of the Poisons Schedule would tinct. nuc. vom., syr. Eastoni, and why? The sale of spirit of salt? A few simple questions were asked in conclusion.

CHEMISTRY.—The following indicate the nature of the questions: What is the effect of passing current through a solution of NaCl? How you which pole is the cathode, and which the anode? Law of Diffusion? The action of water on N, AlCl<sub>3</sub>, SnCl<sub>4</sub>, BiCl<sub>3</sub>, and PCl<sub>5</sub>? How prepare from benzene? How make formaldehyde, formic acid?

MATERIA MEDICA followed, in which about a mens were shown for recognition, including rhubarb root, belladonna-root, elecampane, podophyl ammoniacum, cubeb, etc. Then followed essential oils, castor oil, assay of belladonna-ro resins.

In PRESCRIPTION-READING AND LATIN about a written scripts were given to read, in two of doses were detected. About thirty doses were translation of an easy script into full Latin a conclusion.

After waiting a few minutes, "F. S. M. C." that he had passed a creditable examination, found the examiners reasonable, giving the can of time to answer, and often helping him o saw that he was on the right lines.

AT THE PROVINCIAL GRAND LODGE OF HANT WIGHT, held at Winchester on July 21, Webster, Bart., in the chair, Mr. F. W. Hooper, pharmacist, R.N. Hospital, Haslar, was invested as Provincial Senior Grand Deacon. has served as Master of Lodges "Prince o Gosport," "Loyalty, 352, Bermuda," and is "Victory, 3509, Portsmouth," as well as P. Mark, etc.



## Association Affairs.

**Birmingham.**—A meeting of the Birmingham Pharmaceutical Association was held on July 14 at the Imperial Hotel for the purpose of considering whether any steps should be taken to fix minimum retail prices for drugs, etc., affected by the war. The meeting being unanimously in favour of fixing prices, a Committee was formed consisting of Messrs. Atkinson, Lloyd, Powell, and Thompson (with power to add to their number), and steps are being taken to canvass the whole of the retail chemists and drug-store proprietors in the Birmingham area, the carrying-out of the scheme being conditional on the approval being obtained of at least 90 per cent. of the traders.

**Eastbourne.**—A meeting of the Eastbourne Pharmacists' Association was held on July 13. The President (Mr. G. A. Harmer) was in the chair, and there were present six other members and Mr. D. Marchant, Hon. Secretary. The chemists on the Insurance dispensing panel having shown themselves almost unanimously in favour of accepting the emergency settlement, the Secretary was instructed to inform the Insurance Committee of the acceptance of the offer. It was reported that at the request of a local Committee members of the Association have presented a supply of soap for the use of convalescent soldiers arriving at a local camp. It was decided not to hold the annual outing this year. In regard to the raising of prices of certain tabloids, it was suggested that the makers might be asked to acquaint the Secretaries of Associations of any changes in price. At the request of the Trade Protection Society the question of dinner-hour closing was discussed, and it was agreed that if the closing were universal it would be beneficial.

**Grimsby.**—A general meeting of the Grimsby Pharmacists' Association was held at Druing's Hotel on July 13. Mr. C. Dewing (President) occupied the chair, and there was a fair attendance. Communications were read from the P.A.T.A., C.D.A., and the Pharmaceutical Society, replying to previous resolutions passed by the Association. It was decided to ask the Secretary to write to the returning officer, asking him to call the first meeting of the new Pharmaceutical Committee at an early date.

**Southend-on-Sea.**—A meeting of the Southend-on-Sea Association of Pharmacists was held at 167 High Street on July 19. Mr. S. F. Body presided over a well-attended meeting. Discussion took place upon the five points forming the propaganda which the London County Pharmaceutical Association proposes to carry out during 1915-16, and it was decided that support should be given through the Association's delegates. Special attention was directed to Clause 1, dealing with abolition of the discounting clause and establishment of definite dates for payments of accounts relating to Insurance dispensing contracts. The subject of the filling up of the National Registration Forms was considered. The members were recommended to use the term "Pharmacist" or "Pharmaceutical Chemist" as a description consistent with their qualification; also to observe the advice of the Executive Committee as to the description of special services for which they might offer themselves. Letters were read from Messrs. Harrington, Nowell, and Boots having reference to these matters, and another from Mr. Goode, Secretary of the County of Essex Association of Pharmacists, suggesting that reports of the Southend-on-Sea Association meetings should be sent to him regularly, in order that they might come before the County Committee for consideration, and co-operation if concerted action might be beneficial or necessary. It was resolved to carry out Mr. Goode's suggestion. The N.H.I. Pharmacopœia for Essex was criticised and commented upon, in view of the possibility of its consideration or adoption by the Southend Insurance Committee. Several members expressed the view that this Pharmacopœia, despite the assurance given in its preface, is the natural precursor of stock mixtures, with their attendant disadvantages to the insured person and the ultimate possibility of diminished dispensing-fees for contracting chemists. It was unanimously resolved to resist the adoption of this Pharmacopœia. The Pharmaceutical Committee, which was fully represented at this meeting, elected members to the under-mentioned Sub-Committees as follows: Pharmaceutical Service Sub-Committee—Messrs. King, Hamilton, and Body; Joint Service Committee—Messrs. Carpenter and Body; Drug Joint Committee—Messrs. Misselbrook and Body. The Treasurer (Mr. Misselbrook) drew attention to a deficit in the Association's funds, due to abnormal expenditure. The payment of annual subscriptions forthwith was resolved upon as a means of overcoming the deficiency.

## Business Changes.

Authenticated notes are inserted without charge if no nature of advertisement, and subject to Editorial approval.

MR. M. HORNE has opened a pharmacy at Prospectus, Isle of Man.

MR. JULIUS HALLÉ, importer, intimates that removed to Calle Rivadavia 1365, Buenos Aires.

MR. EDGAR WILSON, pharmacist, has acquired the business of Young & Harrison, chemists, at 356 Essex Islington, London, N.

## "Some" British.

[A flamboyant advertising circular issued by the purveyors of a contemporary emphasises in every second line of being *entirely British*. A correspondent draws attention to the fact, however, that the circular is printed on paper waterlined to the effect that it was made in A

We are British, really British; 'tis our duty so to

When we're out for ads. and "commerce" making

But it looks as if our precept and our practice dis-

When our paper comes from U.S.A.

Then our style (so Transatlantic) lends a truly British

To our business admonitions, grave and gay;

And we harbour sad suspicions, that the whole

"munitions"

Were imported from the U.S.A.

## The Valuable Barrow-load.

JOSEPH CRUSE (63) and Thomas Hawkins (30) were charged, on remand, before Mr. Cecil Chapman at Bridge Police Court, London, on Thursday, July 17, with the unlawful possession of 1½ cwt. of glycerin and of santalwood oil, of the total value of £31*l*. As in our last issue, Cruse was arrested by Detective-Sergeant Pulle and Hayman outside the premises of Bartlett & Co., Great Dover Street, Borough, to whom the and santalwood oil had been offered for sale, and communicated with the police. The tins containing goods were on a barrow, and Cruse stated that he had paid him 2*s*. to take the goods for delivery, when arrested later, admitted that this was so, he had bought the glycerin and oil from a man he did not know, and from whom he had also some boxes. Detective-Sergeant Pulle informed that Hawkins had since told him he had "bought cheap." Nothing was known against either pris- owner had been found, although inquiries had been made with wholesalers. Cruse was bound over in his own aunces: Hawkins was sentenced to two months' ment with hard labour.

## At the Counter.

**A FALKIRK ORDER.**—The following was neatly written and was received by a C. & D. subscriber one day in

"1*d*. skin for to keep the lint moist.

2*d*. boracic lint.

2*d*. sticking plaster.

4*d*. greagon mixture.

6*d*. castor oil.

2 double strong scidlitz powder the weans have

holidays."

The explanatory remark indicates that the "weans than their father were to get the scidlitz powder morning after a dose of castor oil.

**IN BUXTON.**—A little boy came in a few days Zepppelin powder, which turned out to be a scidlitz I also had a customer for a ten-drachm powder"; just fancy taking 5*x*. of aspirin! The for ribbed dumplings for babies is "corrugated Opopoedoc has suffered in this direction perhaps any other word. The latest is "Hapleydeledduck, who wanted a tin of Rodine rat-poison, asked for Rat Polish." Perhaps the following is as funny A lady come in to inquire the price of "the marmalade." I stared in blank amazement, "I in the window," said the lady. On looking, they out to be jars of malt and oil.—J. A. P. (149*14*) Still they come; A little girl for a female headac

**NITSCHE & GUNTHER OPTICAL CO. LTD.**

**WE ARE SPECIALISING IN**

**ROLLED GOLD**

**AND**

**HARD NICKEL ALLOY**

**SPECTACLE FRAMES.**

**WRITE US FOR FULL PARTICULARS.**

**66, HATTON GARDEN, LONDON, E.C.**

# "QUICK MARCH FOOT POWDER

IS HAVING AN AMAZING SALE AMONGST  
THE TROOPS, VOLUNTEER TRAINING CORPS,  
AND GENERAL PUBLIC.

HANDSOME  
SHOWCARD  
WITH  
EVERY ORDER.

NAME AND  
ADDRESS  
ON  
THREE DOZEN.



RETAILS  
**4½**  
PER TIN.

PRICE  
**2/9**  
PER DOZEN,  
CARRIAGE PAID.

*Thousands of tins are being posted weekly by relatives to the men at the front.*

## FREE COLOURED CIRCULARS

SEND FOR SAMPLE.

With not less than **One Gross** we give 500 beautifully illustrated Circulars printed in colours, with your Name and Address, free of charge. Additional Circulars, if required, at 7/6 per 1000. They will form a magnificent Advertisement for your general business if delivered to the best houses in the neighbourhood.

**The Standard Tablet & Pill Co.**  
HOVE, ENG.  
LIMITED



